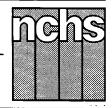
Monthly Vital Statistics Report



Final Data From the CENTERS FOR DISEASE CONTROL AND PREVENTION/National Center for Health Statistics

Advance Report of Final Natality Statistics, 1992

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Highlights

Births in the United States declined for the second consecutive year in 1992, to 4,065,014. The most recent high point was the 1990 total, 4,158,212, which was the largest number reported since 1962. The 1992 birth rate was 15.9 live births per 1,000 population, and the fertility rate was 68.9 live births per 1,000 women aged 15–44 years; these measures were 3–5 percent below the 1990 rates. Provisional data indicate that these measures of fertility continued to decline in 1993.

The birth rate for teenagers 15–17 years may have reached a turning point in 1992, with the rate declining 2 percent, following a 27-percent increase reported during 1986–91. Nevertheless, the 1992 rates for this age group were still almost as high as the rates reported nearly two decades ago. It appears that the teenage pregnancy rate may have fallen in 1992, based on recently reported declines in the teenage abortion rate combined with the declines in birth rates.

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This report was prepared under the general direction of Robert L. Heuser, Chief of the Natality, Marriage, and Divorce Statistics Branch. Donna L. Wright assisted with table production and technical support. Thomas D. Dunn of the Statistical Resources Branch provided statistical tables and content review. Linda Pardoe, Virginia Brainard, Gail Parr, Linda Elias, Manju Sharma, Heidi Brotherton, and Jordan Sacks of the Systems and Programming Branch provided computer programming support. Patricia W. Day, David W. Justice, and Ann F. Scarlett of the Technical Services Branch carried out quality evaluation and acceptance procedures for the State data files on which this report is based. Staff of the Registration Methods Branch consulted with State vital statistics offices regarding the collection of the birth certificate data. This report was edited by Arlett R. Brown and typeset by Jacqueline M. Davis of the Publications Branch, Division of Data Services.



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The substantial increases in birth rates for women in their thirties measured since the mid- to late 1970's appear to have stopped. These rates have stabilized in 1991 and 1992. Still a record number of babies were born to women aged 30–34 years, nearly 900,000. Births to women aged 35–44 also were at record levels.

Birth rates for women in their twenties, the peak childbearing years, declined by 1 percent. These rates had fallen in the early 1980's and then increased, but the net effect was little change in rates from 1980 to 1992. The number of births to these women in 1992 was 3 percent below the 1991 total.

Wide disparities were reported in birth rates for racial and Hispanic subgroups. Generally, rates were highest for Hispanic (especially Mexican) and black women, followed by American Indian, Asian, and white women. The variations by age within each group were also substantial. Rates declined or changed little for most racial and Hispanic groups.

Births to unmarried mothers hit record levels again in 1992, but the increase from 1991 was the smallest since 1983. The 1992 total number was 1,224,876, and the birth rate was 45.2 per 1,000 unmarried women aged 15–44 years, unchanged from 1991. Thirty percent of U.S. births were to unmarried women, including 23 percent of white births and 68 percent of black births. The lowest proportions were among Asian women, 15 percent as a group. Among Hispanic women, the proportion was 39 percent.

More than 40 percent of women giving birth in 1992 had at least some college education and 19 percent were college graduates. There were wide variations in educational attainment for racial and Hispanic subgroups, with the proportions completing high school ranging from 46 percent of Hispanic women to 98 percent of Japanese women.

Weight gain during pregnancy provides important insights into the nutrition of pregnant women and is directly associated with infant birthweight. Median weight gain was 2.1 pounds higher for white than for black mothers, and very low weight gains of less than 16 pounds were nearly twice as frequent for black as for white mothers (15.8 percent compared

with 8.3 percent). Among other racial groups, Chinese mothers were least likely to have a weight gain of less than 16 pounds (7.0 percent) and American Indian mothers were most likely (14.0 percent). Mothers in their late twenties and early thirties were at smallest risk of a very low weight gain, and mothers aged 40–49 were at highest risk.

Data on medical risk factors show that, of all racial and Hispanic-origin groups, American Indian mothers had the highest reported rates for anemia, diabetes, pregnancy-associated hypertension, and uterine bleeding; all of which complicate pregnancy and compromise pregnancy outcome. The rates for Chinese mothers were among the lowest for these factors, except for diabetes, for which their rate was comparable to the level for American Indians.

Cigarette smoking by pregnant women declined in 1992 for the third consecutive year, to 16.9 percent (1-3); 17.9 percent of white mothers and 13.8 percent of black mothers smoked during pregnancy. Asian and Hispanic women generally have much lower smoking rates, an average of 5-6 percent. The strong association between maternal cigarette smoking and reduced infant birthweight persists. In 1992, 11.5 percent of babies born to smokers weighed less than 2,500 grams at birth compared with 6.3 percent of births to nonsmokers. An estimated 40,000 fewer infants would have been born with low birthweight if their mothers did not smoke.

The proportion of mothers beginning prenatal care in the critical first trimester rose for the first time in more than a decade, to 78 percent in 1992. This is the highest level ever reported. The proportion whose care was delayed until the third trimester or who had no care at all fell to 5 percent.

Electronic fetal monitoring was used on more than 3,000,000 births, or 77 percent of the total in 1992, the third consecutive year of increase in this procedure, from 68 percent in 1989. Ultrasound was the second most commonly reported obstetric procedure, at 58 percent.

The proportion of births delivered by physicians in hospitals declined again in 1992, as it has since 1975, to 94.2 percent,

while midwife-attended deliveries in hospitals rose to 4.4 percent of all births.

The national cesarean rate declined again in 1992, to 22.3 percent of all births compared with 22.8 percent in 1989. In 1992 the highest rates were for women aged 35–39 years having their first child and women in their forties having their first or second child. Teenagers were least likely to have a cesarean delivery.

The frequency of vaginal birth after a previous cesarean delivery continued to increase, to 22.6 percent of births to mothers with a previous cesarean, 20 percent higher than the rate of 18.9 percent in 1989. Forceps deliveries continued to decline in 1992 (4.3 percent of births), while vacuum extraction continued to increase (4.8 percent of births).

The steady decline in the average number of births on Saturdays and Sundays compared with the daily average continued in 1992, with the Sunday deficit increasing to 21 percent and the Saturday deficit, to 15 percent. The weekend deficit is far greater for cesarean births, particularly repeat cesareans, than for vaginal births. The growing deficit of both vaginal and cesarean deliveries on weekends is associated with the increased use of induction of labor on weekdays. There were 11 percent more births on Tuesdays, the peak day of occurrence, than the daily average.

The proportion of babies born preterm (less than 37 completed weeks of gestation) declined slightly to 10.7 percent in 1992. All of the improvement occurred among black births, with the preterm rate declining from 18.9 to 18.4 percent, while the proportion for white births remained at 9.1 percent. The preterm level for black births was the lowest since 1987; between 1987 and 1991, this proportion had increased from 18.4 to 18.9 percent.

The incidence of low birthweight (less than 2,500 grams) remained at 7.1 percent in 1992, the highest level reported since 1978. There has been no improvement in this important predictor of infant survival. Black babies continue to be at twice the risk of low birthweight as white babies, 13.3 percent compared with 5.8 percent, although there was a small decline in the low birthweight rate for black infants (from 13.6 percent).

The rate of occurrence of Down's syndrome per 100,000 live births was twice as high for women aged 30-34 years as for teenagers, 56.0 compared with 28.9, and 12 times as high for women aged 40-49 years, 343.0. Congenital anomaly rates for live births were higher for black than for white births for only 4 of the 20 anomalies identified on birth certificates. The racial differential is particularly noticeable for polydactyly/syndactyly/adactyly (extra, malformed, or missing fingers or toes), for which the rate for black births was nearly four times the rate for white births, 217.3 compared with 58.8.

The number of plural births, especially triplets and higher-order plural births, increased in 1992, more than in any previous year. Most of the increase was among mothers aged 30 years and over and among white mothers.

Introduction

This report, the annual release of national birth statistics, has been entirely redesigned for the 1992 data year. In the previous 3 years, birth statistics were published in two separate reports-one focusing on demographic characteristics and some limited maternal and infant health data and the other on the new maternal and infant health data items from the 1989 revision of the U.S. Standard Certificate of Live Birth. For 1992 these two reports have been fully integrated into one publication. Detailed data are shown in this report for American Indian, Asian or Pacific Islander, and Hispanic women, including births and birth rates, as well as the various maternal and infant health measures. In addition, all tables showing trends in births, birth rates, and characteristic of births present data tabulated by race of mother for all years beginning with 1980. Details of the tabulation of birth data by race are described in the "Technical notes."

Demographic characteristics

Births and birth rates

There were 4,065,014 babies born in the United States in 1992, 1 percent fewer than in 1991 (4,110,907). It was the second consecutive year of decline, also 1 percent between 1990 and 1991. During the latter half of the 1980's, U.S. births had increased by 11 percent, following a period from 1980 to 1985, during which the annual number of births varied by 2 percent or less (table 1 and figure 1). Provisional data for 1993 indicate that the

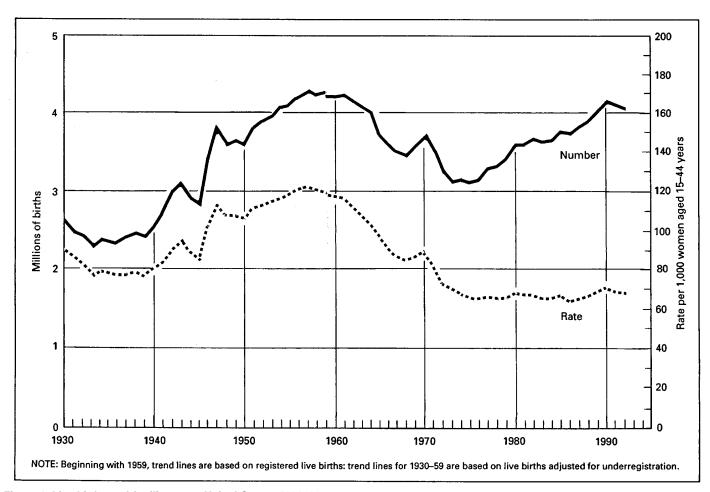


Figure 1. Live births and fertility rates: United States, 1930-92

number of births declined again, by about 1 percent.

The birth rate for 1992 was 15.9 live births per 1,000 total population, 2 percent lower than in 1991 (16.3) and 5 percent below the 1990 rate (16.7). The 1992 rate was lower than in any year since 1987; provisional data for 1993 suggest an additional decline of about 1 percent in the birth rate.

In 1992 the fertility rate was 68.9 live births per 1,000 women aged 15–44 years, a 1-percent decline from the rate for 1991 (69.6) and 3 percent lower than in 1990 (70.9). The 1990 rate had been

the highest reported since 1972, following a steady period of increase amounting to 8 percent between 1986 and 1990. Provisional reports indicate that the fertility rate continued to fall in 1993, by about 1 percent.

Age of mother—Birth rates by age of mother declined 1–2 percent for teenagers 15–17 years and for women in age groups 20–24 and 25–29 years; rates for women in age groups 30–44 years increased 1–7 percent. Rates for young teenagers 10–14 years and women aged 18–19 and 45–49 years were virtually unchanged. (Numbers and rates by age

and live-birth order are shown in tables 2–5.)

After a period of consistent annual increases in birth rates for teenagers 15–17 years from 1986 to 1991, amounting to 27 percent overall, it appears that 1992 may mark a turning point (table 4 and figure 2). The birth rate for teenagers 15–17 years declined 2 percent, to 37.8 per 1,000. This rate ranged between 31 and 34 per 1,000 during 1976–85, following a 12-per- cent decline from 1970 to 1976. The 1992 birth rate of 37.8, although lower than in 1991, was still higher than in any other year since 1973 (38.5).

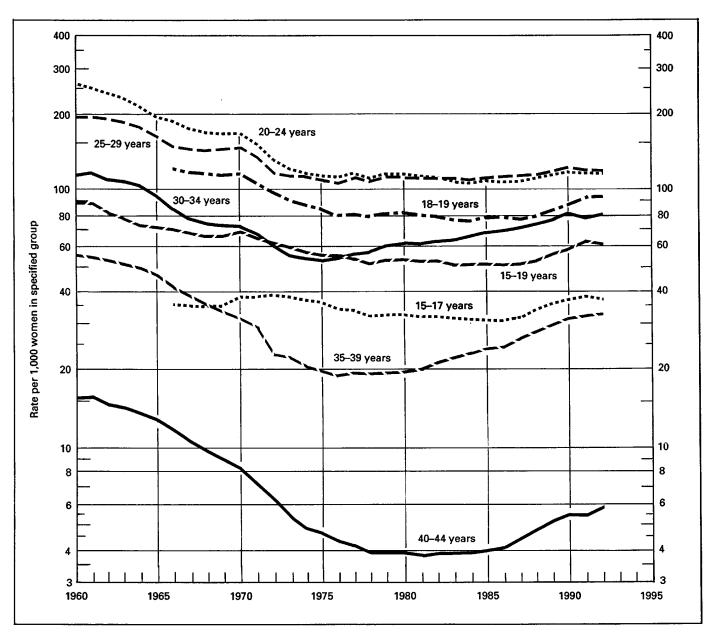


Figure 2. Birth rates by age of mother: United States, 1960-92

The 2-percent drop from 1991 to 1992 in the birth rate for teenagers 15–17 years was enough to produce a small decline in the number of births for this age group (187,549 in 1992); the decline in the number of births would have been larger had there not been a 2-percent increase in the number of teenagers between 1991 and 1992, reversing a 5-year period of decline in this population (4,5).

The birth rate for older teenagers increased less than 1 percent, to 94.5 per 1,000 in 1992. The rate for these young women had also risen sharply between 1986 and 1991, by 19 percent; between 1990 and 1991 alone, the rate increased 7 percent. After falling rapidly by 30 percent between 1970 and 1976, the rate for older teenagers had been fairly stable until the late 1980's, ranging from 77 to 82 per 1,000. The rate for 1992, as for 1991, was higher than in any year since 1972, when it was 96.9 (table 4).

Although the birth rate for women aged 18–19 rose slightly in 1992, the number of births to these women fell by 4 percent, to 317,866 in 1992. This reflected the 4-percent decline in the number of women in this age group; these women were born in 1973–74, when total births in the United States fell to historic low levels.

Birth rates for women in their twenties, the principal childbearing ages, declined by 1 percent in 1992. Rates for these women had declined 4–7 percent from 1980 to 1984 and then had risen by 8 percent between 1986 and 1991, resulting in little net change over the decade (table 4 and figure 2). The relative stability in the birth rates for these women is the main factor accounting for the small changes in the general fertility rate since 1980.

Women in their thirties have shown the longest-lasting and most persistent increase in birth rates. However, rates for women 30–34 years rose by just 1 percent in 1992, following a 2-percent decline in 1991. It appears that 1991 marked a turning point, halting the previous considerable annual increases in birth rates since the mid-1970's: The rate for women aged 30–34 years rose 31 percent between 1980 and 1990 and 54 percent from 1975 to 1990 (80.8), but then declined to 80.2 in 1992. Even the

modest 1-percent increase between 1991 and 1992 was enough to produce a 1-percent increase in the number of births in 1992 to 895,271, the highest number ever recorded. The 1992 total was more than double the number reported in 1973 (369,976), when the trend to making up for previously delayed childbearing was just underway (6).

The birth rate for women aged 35–39 years increased 2 percent in 1992, to 32.5 per 1,000; the rate had increased just 1 percent in the previous year. The 3-percent overall rise from 1990 to 1992 follows a 60-percent increase over the period 1980–90, the sharpest rate of increase observed for any age group. The 3-percent increase in the number of women in this age group between 1991 and 1992 combined with the 2-percent rise in the birth rate produced a 4-percent increase in the number of births to these women in 1992, to 344,644, the highest annual total since 1961.

Birth rates for women in their forties, although much lower than for any other group (except teenagers under 15 years), have also risen substantially since 1980, by 50–51 percent. The rate for women aged 40–44 years was 5.9 in 1992, 7 percent higher than in 1991 (5.5). Reflecting mainly this increase as well as a slight increase in the number of women in this age group, the number of births to women aged 40–44 years rose 7 percent, to 55,702, the highest number since 1968.

The leveling off of the sharp rate of increase in teenage childbearing during the 1980's may reflect a similar leveling off since 1988 in the proportion of teenagers who are sexually active, especially among the younger teenagers (7). In addition, other survey data suggest that sexually-active teenagers are more likely to be using some contraception regularly (8).

According to recently published data, it appears that abortions among teenagers have also declined in recent years (9). Thus the decline in teenage birth rates in 1992 would indicate that the teenage pregnancy rate has declined as well, following increases from the midto late 1980's (10).

Another factor that has been linked to the rise in the teenage birth rate has been the growing proportion of white teenage births that are to Hispanic

teenagers, 31 percent in 1992 (basic data in tables 2, 6, and 7). Hispanic women have much higher fertility than white non-Hispanic women at all ages, but particularly in the teenage years. For example, the rate for Hispanic teenagers 15-19 years was 107.1, and for white non-Hispanic teenagers it was 41.7. Although the birth rate for Hispanic teenagers had risen in recent years, just as it had for non-Hispanic teenagers, in 1992 the rate for Hispanic teenagers rose less than 1 percent, and for white non-Hispanic teenagers the rate declined 2 percent. The net effect of these modest changes was a decline in the teenage birth

Since 1986, trends in the numbers of Hispanic and white non-Hispanic teenaged women have diverged. During this period the number of Hispanic teenagers 15-19 years rose 13 percent, while the number of white non-Hispanic teenagers fell 15 percent (4,5). These diverging trends have contributed to the rising proportion of the white teenage population that is Hispanic, from 11 percent in 1986 to 14 percent in 1992 (4,5). Because the birth rates for white teenagers are increasingly affected by the much higher birth rates for Hispanic than for non-Hispanic women, these population patterns will likely keep the number of births to U.S. teenagers at a high level.

Since 1988, teenagers have accounted for 13 percent of all births in each year. This proportion held steady in 1992 as a result of a combination of factors. Although birth rates for teenagers as well as for women in their twenties declined, these declines were only partially offset by small increases in rates for women aged 30 years and older. In addition, the teenage population that had been declining has begun to increase slightly for ages 15–17 years, while the number of women in their twenties has declined. The major increase in population among women of childbearing age is for those aged 35-49 years, which increased by up to 9 percent between 1991 and 1992, due to the continued aging of women in the "baby boom" generation (4,5).

The recent trends in childbearing at older ages reflect the patterns of child-lessness among American women. About 1 in 5 women who were aged 35 years at the end of 1992 were childless. This

proportion has changed little during the early 1990's but has risen sharply from levels observed in the mid-1970's; the proportion was about 1 in 9 in 1975. Despite the high current levels of childlessness among women in their thirties, the majority of those who are currently married indicate in surveys that they expect to have at least one child (11). This would indicate that birth rates for all women in their thirties would continue to rise, albeit slowly. However, a factor which may be limiting the realization of the expectations of these women is the extent of fertility impairment. According to data from the National Survey of Family Growth (NSFG), one-third of childless wives aged 35-44 were reported to have impaired fertility in 1988 (12).

Women who are making up for previously postponed childbearing are disproportionately well-educated. (See also later section on educational attainment.) In 1992, 49 percent of women aged 30–49 years having their first child were college graduates, twice the proportion in the general population, which was 24 percent for women in this age group in 1992 (13).

It appears that as the smaller numbers of women under 25 years of age replace the much larger numbers of women aged 25-44 years, the total number of births will decline, unless birth rates for women in their twenties, the principal childbearing ages, increase considerably. This seems unlikely, however, because rates for women in their twenties have declined 2 percent since 1990, following a decade of relatively little net change. Moreover, the coming shifts in the numbers of women in each of the childbearing age groups are also likely to exert a downward pressure on the total number of births. The largest numbers of women are aged 30-44 years. As these women get older, their risk of giving birth—as measured by the birth rate—declines very sharply. In contrast, although women aged 20-29 have the highest birth rates, the number of women in their twenties will continue to decline over the next few years.

Live-birth order—Birth rates declined by 2 percent or less for first-through fourth-order births, while the rates for fifth-, sixth-seventh-, and eighth- and higher-order births were unchanged

(tables 3 and 5). Between 1990 and 1992, rates for first-, second-, and fourth-order births declined 3–4 percent, reversing a pattern of increase from 1987 to 1990.

While the first-birth rate declined 2 percent overall, the declines were largest for women in age groups 15-24 years. The 3-percent drop in the first-birth rate for teenagers marks a reversal of the sharp upward trend in this rate from 1986 to 1991, when the rate rose 20 percent. The previous upward trend halted for both younger and older teenagers; the first-birth rate for teenagers 15-17 declined 3 percent following a 24-percent increase, while the rate for teenagers 18-19 years dropped 1 percent after a 14-percent increase. In the case of teenagers, the decline in the first-birth rate is particularly important, because it indicates that the proportion of teenagers who became mothers for the first time has declined.

First-birth rates for women in their thirties rose 1 percent in 1992. These rates had changed little in 1991 as well. Between 1986 and 1990, however, these rates had increased 20–43 percent. The slowdown in these rates is an important indication that the trend to making up for previously postponed childbearing has leveled off.

Second-order birth rates changed little, except for a 2-percent rise for women aged 18–19 and for women in their thirties. Changes in other rates specific for age and live-birth order were generally small for women aged 15–34 years.

Births by race—Beginning with this report, birth data compiled by the National Center for Health Statistics (NCHS) for 1980-88 have been retabulated by race of mother as reported directly on the birth certificate. This is to be consistent with data by race already available for the years since 1989 when NCHS first began to tabulate births by race of mother. Before 1989, birth tabulations had been by race of child, as determined by an algorithm based on information reported for the mother and the father. Details of current and former procedures for tabulating births by race are described in the "Technical notes."

In this report, discussion and analysis of changes in rates and various other measures are based on rates and measures

computed by race of mother. Text references to white births and white mothers or black births and black mothers, for example, are used interchangeably for ease in writing. Births and detailed birth rates by age of mother and live-birth order are presented for American Indian (including Aleut and Eskimo) and Asian or Pacific Islander women for the first time in this report (tables 2–4 and 8). The subgroups comprising the Asian or Pacific Islander category include Chinese, Japanese, Filipino, Hawaiian, "Other" Asian persons. Trends in the numbers of births and birth and fertility rates for American Indian and Asian women for 1980–92 are shown in table 1.

The fertility rate for white women was 66.5 live births per 1,000 women aged 15–44 years, 1 percent lower than in 1991 and 3 percent below the 1990 rate of 68.3 (table 1). The rate for black women was 83.2 in 1992, 2 percent lower than in 1991 and 4 percent below the 1990 rate of 86.8. The rate for American Indian women increased by less than 1 percent, to 75.4. The fertility rate for Asian or Pacific Islander women declined 1 percent, to 67.2. Although fertility rates for white and black women in 1992 were very similar to the rates in 1980, this was not the case for American Indian and Asian women whose rates were 8-9 percent lower in 1992 than in 1980.

Although fertility rates for American Indian and Asian women have declined since 1980, there have been large increases in the numbers of births to these women, 34 percent and 102 percent, respectively. These disparate trends reflect the impact of the very large increases in the number of persons reported in these racial groups, 51-124 percent between 1980 and 1992 (4.5). Births to American Indian and Asian mothers, as well as births to Hispanic mothers, tend to be highly concentrated geographically (tables 8 and 9). For example, more than half the births to American Indian mothers were to residents of five States: Alaska, Arizona, California, New Mexico, and Oklahoma. Similarly, residents of California, Hawaii, and New York accounted for 57 percent of all Asian or Pacific Islander births.

The 1-percent decline in the fertility rate for white women reflects mainly a 1-percent decline in the rate for white married women; the rate for white unmarried women increased 2 percent. The 2-percent reduction in the fertility rate for black women reflects declines of 1 percent in rates for married and 3 percent for unmarried women.

Birth rates by race for women under 25 years of age differ substantially. Among teenagers, the rate was highest for black, 112.4 per 1,000 aged 15-19 years, followed by American Indian, 84.4; white, 51.8; and Asian or Pacific Islander teenagers, 26.6 (table 4). The disparity is greatest for teenagers 15-17 years, for whom the highest rate, 81.3 (black), was more than five times the lowest rate, 15.2 (Asian). Teenage birth rates for all racial groups show a very similar trend, however, in that rates increased considerably beginning in the mid-1980's, after declines in the earlier part of the decade. The impact of these variations in teenage birth rates is reflected in the proportions of all births in each racial group that are to teenage mothers (table 10).

The rates for women aged 20–24 years were highest for black and American Indian women, followed by white and Asian women. Rates by race are most similar at ages 25–29 years, ranging from 109 to 121 per 1,000.

Rates for women in their thirties show a reversal of the teenage pattern. The rate for Asian women aged 30-34 was highest, at 103.0, 27 percent above the rate for white women (81.4) and 53-63 percent above the rates for black and American Indian women (67.5 and 63.0, respectively). This pattern continued for women aged 35 years and older, with rates for Asian women at least 57 percent higher than rates for any other racial group. The tendency to make up for previously postponed childbearing is very evident among white women aged 30 years and older and Asian women 35-44 years. The disparities in birth rates by age for Asian or Pacific Islander subgroups have been reported elsewhere (14).

First-birth rates by race, although similar for all ages combined, differ sharply by age. Among teenagers, rates are highest for black and American Indian, followed by white teenagers. The first-birth rates for Asian teenagers are very low, one-third to one-half the rates

for other racial groups. At ages 30 and older, the patterns shift completely. For example, the first-birth rate for Asian women aged 30-34 years, 36.0, was 64 percent higher than the rate for white women and more than four times the rate for American Indian women. The disparities in birth rates by age and birth order are again reflected in the widely varying proportions of teenage births and fourthand higher-order births (table 10). These demographic measures provide important information on fertility patterns for Asian or Pacific Islander subgroups for whom birth rates can be computed only in census years.

Between 1991 and 1992, only the first-birth rate declined for white women, by 2 percent. Rates for all other orders were unchanged. For black women, however, the declines in rates by birth order extended from first- through fourth-order births (3 percent).

Hispanic origin—The fertility of Hispanic women, particularly Mexican women, continues to be the highest of any racial or ethnic group for whom rates can be reliably computed. In 1992 the Hispanic fertility rate was 108.6 per 1,000 women aged 15-44 years, 69 percent higher than the rate for non-Hispanic women as a group (tables 7 and 11). Rates by race for non-Hispanic women were 60.2 for white women and 85.5 for black women. These levels are very similar to those reported for 1991; the rates for Hispanic and white non-Hispanic women increased by less than 1 percent, while the rate for black non-Hispanic women declined 1 percent. The levels and trends in rates for Hispanic subgroups varied widely. The rate for Mexican women, 116.0, was 5 percent lower than in 1991. The rate for Puerto Rican women increased 11 percent, to 89.9, while the rate for "Other" Hispanic women rose 8 percent, to 107.0. The rate for Cuban women increased from 49.1 to 50.3.

The Hispanic population is characterized by substantial geographic concentration as noted above. In 1992, 61 percent of Hispanic births were to California or Texas residents (table 9). Another 25 percent of Hispanic-origin births were to residents of Arizona, Florida, Illinois, New Jersey, New Mexico, and New York. Moreover,

Hispanic mothers accounted for at least 30 percent of the births in four States: Arizona, California, New Mexico, and Texas.

Birth rates for Hispanic women were higher at each age than rates for non-Hispanic women. This pattern is also observed for Puerto Rican and "Other" Hispanic mothers under 25 years of age and for "Other" Hispanic women aged 25 and older. Rates for Cuban women under 30 years of age were well below those for other Hispanic or non-Hispanic groups; at ages 30 years and older, the rates are more comparable. The generally elevated age-birth order-specific birth rates for Hispanic women at all ages is the major factor behind the high proportions of births to teenage mothers (except Cubans) and the high proportions of births of fourth and higher order (table 11).

Birth rates for Hispanic women increased 1–2 percent in age groups 15–19 years through 40–44 years between 1991 and 1992. Age-specific rates generally increased for Puerto Rican, Cuban, and "Other" Hispanic women by at least 4 percent, while rates for Mexican women declined by 1–7 percent. Rates for non-Hispanic women by race generally declined for women under 25 years of age by up to 3 percent, while most rates for women aged 30–44 years rose 3–8 percent. The rates for women aged 25–29 years changed 1 percent or less.

Total fertility rate—The total fertility rate indicates the number of births that 1,000 women would have if they experienced during their childbearing years the age-specific birth rates observed in a given calendar year. It is a hypothetical measure that shows the potential impact of current fertility levels on completed family size. The total fertility rate is age adjusted because it is computed from age-specific birth rates; it assumes the same number of women in each age group.

The total fertility rate in 1992 was 2,065.0, less than 1 percent below the rate for 1991 (2,073.0). The rate has now declined for 2 years, following 4 consecutive years of increase amounting to 13 percent (table 4). The continued decline in the rate from 1990 to 1992 reflects the 1–2 percent reductions in

rates for women aged 20–34 years, which were only partially offset by increases in rates for younger and older women. The rate of 2,065 is still about 2 percent below the "replacement" level rate (2,100), which is the level considered necessary for a given generation to exactly replace itself in the population over the long run. The U.S. total fertility rate has been below replacement level for more than two decades.

Total fertility rates for white and Asian women were very similar, at 1,993.5 and 1,942.0, respectively. The rate was highest for black women, at 2,442.0, followed by the rate for American Indian women, 2,190.0 (table 4).

Between 1980 and 1992, the total fertility rates for white and black women each increased by 12 percent. The rate for American Indian women rose by 1 percent, while the rate for Asian women declined by 1 percent.

Hispanic women as a group had the highest total fertility rate of any racial or ethnic group for whom the rate can be computed; the rate in 1992 was 3,043.0 (table 11). There was wide variation in this measure for the Hispanic subgroups, ranging from 1,485.5 (Cuban) to 3,196.5 (Mexican). These levels and variations were observed in 1990–91 as well (14.15).

Births by State

The number of births declined in 37 States and the District of Columbia and increased in 13 States in 1992. (See tables 8 and 9 for 1992 data.) Numbers declined by up to 2 percent in 30 States. The number declined by 4–7 percent in Delaware, Maine, Michigan, and the District of Columbia.

The birth rate per 1,000 total population declined in 46 States and the District of Columbia. Changes in the other four States were 1 percent or less. The rate declined by 4–7 percent in Delaware, the District of Columbia, Maine, Michigan, Missouri, South Carolina, and Vermont.

The fertility rate per 1,000 women aged 15–44 years also declined in most States. Declines were reported in 39 States and the District of Columbia. Rates increased in nine States, but most increases were 1 percent or less. Rates

were unchanged in two States. Declines of 4–5 percent were reported for Delaware, Maine, Michigan, and the District of Columbia.

The numbers of births by race of mother and by Hispanic origin of mother for each State are shown in tables 8 and 9. It is apparent from these tables that births to American Indian, Asian, and Hispanic mothers are concentrated in relatively few States.

Sex ratio

The sex ratio is the number of male babies born per 1,000 female babies. This ratio was 1,050 in 1992 (table 10), a number around which it has fluctuated only slightly in the last 50 years. For specified racial categories, the sex ratio was highest for Asian or Pacific Islander mothers (1,065), intermediate for white (1,053) and black (1,036) mothers, and lowest for American Indian mothers (1,034). There were large disparities in the sex ratio for Asian subgroups, ranging from 1,049 for Japanese mothers to 1,083 for Filipino mothers. The sex ratio was generally higher for non-Hispanic (1,052) than for Hispanic women (1,041), but this was not always the case when detailed Hispanic and non-Hispanic groups were compared (table 11). The ratio for non-Hispanic white mothers (1,056) was higher than most Hispanic categories but lower than the ratios for Puerto Rican (1,057) and Cuban (1,079) mothers. The ratio for non-Hispanic black mothers (1,036) was lower than all Hispanic categories except mothers of "Other" or unknown Hispanic origin (1,030).

Month of birth

In 11 of the 12 months of 1992, monthly birth and fertility rates were below the rates observed in 1991; only in June were the rates slightly higher. Continuing a pattern observed for many years, the peak months of occurrence of births in 1992 were July, August, and September (table 12). When the seasonal component is removed from the monthly birth and fertility rates, the underlying trends can be observed. Like the 2 previous years, seasonally-adjusted birth and fertility rates for the first half of 1992 were, on average, higher than the rates for the second half of the year.

Provisional data for 1993 suggest a continuation of this pattern. All months except June had the lowest seasonally-adjusted birth rates in at least 3 years, while August, September, and November showed the lowest rates since 1988.

Day of week of birth

Since 1980, the day of the week on which births occur has been tracked from entries on birth certificates. The daily pattern of births is measured by an index of occurrence. The index is defined as the ratio of the average number of births for a particular day of the week to the average daily number of births for the year, multiplied by 100. Thus, for the year 1992, the Sunday index of 78.8 (table 13) was obtained by relating the average number of births on Sundays (8,754) to the average daily number of births for the year (11,107) and multiplying by 100. The Sunday index of 78.8 is an indication that there were 21.2 percent fewer births on Sundays than the daily average.

From 1980 to 1991 there was a steady decline in births on Saturdays and Sundays. Between 1991 and 1992 this trend continued—the Sunday index declined from 79.7 to 78.8 and the Saturday index, from 85.3 to 84.8. In 1992, as in the past, Tuesday was the peak day of occurrence of births. The Tuesday index of 111.0 signifies that the average number of births on this day of the week was 11 percent higher than the daily average. These patterns are similar for white and black births, but the weekend deficit and concentration of births on weekdays are not as pronounced for black births (table 13).

The weekend deficit for cesarean deliveries, particularly repeat cesareans, is far more pronounced than for vaginal births. Although the Sunday deficit for vaginal births was 15 percent, the deficit for primary cesareans was 31 percent and for repeat cesareans, 60 percent. The Saturday deficit is similarly far higher for primary and repeat cesarean deliveries; for primary cesareans the deficit was 20 percent and for repeat cesareans, 54 percent, compared with 10 percent for vaginal births.

The growing deficit of vaginal births on weekends is associated with the increasing proportion that are induced (from 9.1 percent in 1989 to 11.7 percent in 1992). This is because induction of labor is less likely on weekends than on weekdays. In 1992, 6 percent of vaginal births delivered on Sundays and 9 percent of those delivered on Saturdays were induced compared with 13 to 14 percent on Tuesdays through Fridays.

Part of the growing weekend deficit of births by cesarean delivery can also be explained by the rising trend in induction of labor. In 1992 a failed induction of labor preceded 14.3 percent of primary cesarean births, 13 percent higher than in 1989 (12.6 percent). Induction of labor preceding a primary cesarean is also less likely on weekends than on weekdays. similar to the daily pattern in induction found for vaginal births. Of the births by primary cesarean that occurred on Tuesdays through Fridays, labor was induced for approximately 15 to 16 percent compared with 10 percent on Sundays and 14 percent on Saturdays.

Births to unmarried women

In 1992, for the first time in 8 years, the rate of childbearing among unmarried women did not increase over the previous year (tables 14 and 15). The 1992 rate was 45.2 live births per 1,000 unmarried women aged 15–44 years. During the period 1984–91 this rate had increased 46 percent, or about 7 percent per year.

Continuing a pattern that has been observed for several years, childbearing by unmarried women increased for white women, while declining or remaining unchanged for black women. The nonmarital birth rate for white women was 35.2 per 1,000, 2 percent higher than in 1991 (34.6). This rate has nearly doubled since 1980 (18.1).

The rate for unmarried black women was 86.5 per 1,000, 3 percent lower than in 1991 (89.5) and 7 percent above the 1980 level (81.1). Whereas in 1980, the nonmarital birth rate for black women was 4.5 times the rate for white women; by 1992 the racial differential was 2.5, reflecting the substantially greater increases for white than for black women.

There was no consistent pattern in the changes in nonmarital birth rates by age. Declines of less than 1 percent were reported for teenagers 15–19 years and women aged 30–34 years. The rate for

women aged 20–24 years rose 1 percent and was unchanged for women aged 25–29 years. The birth rates for women aged 35–39 and 40–44 years increased 4–8 percent. The modest changes between 1991 and 1992 in rates for women under 35 years of age can be better appreciated when viewed in the context of the previous 7-year period, 1984–91, when nonmarital birth rates by age increased 49–65 percent, or 7–9 percent annually.

The nonmarital birth rate was highest for women aged 20–24 years (68.5), followed closely by women aged 18–19 (67.3) and 25–29 years (56.5). The rates for younger women 15–17 years and women aged 30–39 ranged from 19 to 38 per 1,000. Although most age-specific rates increased little or not at all, the modest increases in some rates brought them to the highest levels ever recorded in the United States (women aged 18–19, 20–24, and 35 years and older) (figure 3).

All birth rates for unmarried white women increased in 1992, except the rate for teenagers 15–17 years. The increases amounted to 1–4 percent for women under 35 years of age and 7–13 percent for older women. In contrast, most age-specific rates for black women declined, by 1–4 percent for women under 35 years of age. The rate for women aged 35–39 rose 1 percent and was unchanged for women in their forties.

The larger increases in 1992 in rates for women aged 35 and older—compared with younger women—somewhat resumes a pattern that had been observed from 1980 to 1990. As a consequence, the proportion of nonmarital births to teenagers has continued to decline, amounting to 30 percent in 1992. Women aged 25 and older accounted for 35 percent of the births.

The proportion of all births to unmarried mothers increased from 29.5 percent in 1991 to 30.1 percent in 1992. This measure, sometimes referred to as the ratio of births to unmarried women, is affected by trends in the number of births and the birth rate for married women as well as the trends in these measures for unmarried women. In 1992 total births and births to married women declined, while births to unmarried women rose; thus the proportion of all births that were to unmarried women

continued to rise, although slightly.

The proportions of births to unmarried women vary widely by race and Hispanic origin (tables 10 and 11), but there was little or no change in these proportions in 1992. In that year, the percent of births to unmarried women was lowest for Asian women as a group, 15 percent. Within that group, Chinese and Japanese women had the lowest proportions of nonmarital births (6-10 percent), followed by "Other" Asian (15 percent), Filipino (17 percent), and Hawaiian women (46 percent). The proportion for white women was 23 percent; for American Indian women, 55 percent; and for black women, 68 percent.

Proportions were generally higher for Hispanic women, at 39 percent overall. Again, there was wide variation among the Hispanic subgroups—20 percent of Cuban births, 36-38 percent of Mexican and other Hispanic births, 44 percent of Central and American births, and 58 percent of Puerto Rican births. In accounting for the high proportions of nonmarital births in some Hispanic subgroups, it should be kept in mind that births to unmarried women include births to women in consensual or common-law marriages because these women are not legally married. Common-law marriages are relatively frequent among Hispanic women (16). To some extent, the variations by race and Hispanic origin in the proportions of nonreflect marital births comparable variations in teenage birth rates and in the proportions of births to teenaged mothers (tables 3, 4, 7, 10, and 11).

The number of nonmarital births in 1992 totaled 1,224,876, the highest number ever reported, but only a 1-percent increase over the 1991 number (1.213.769). Nonmarital births increased especially sharply during the 1980-91 period, because the 66-86 percent increases in rates for women aged 25-39 coincided with very large increases (42-99 percent) in the number of unmarried women in those age groups (17). Between 1991 and 1992, increases in rates were reported for women 18-24 and 35-44 years. However, the number of unmarried women aged 18-24 years (the ages when nonmarital birth rates are highest) declined 1 percent, while the number for those aged 35-44 years (ages

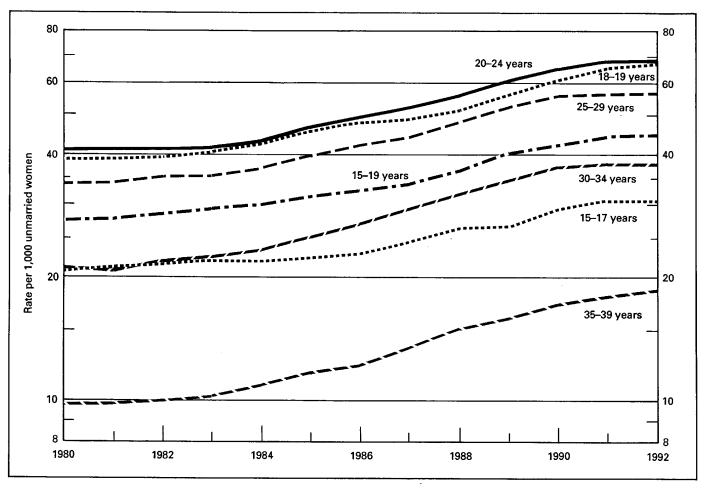


Figure 3. Birth rates for unmarried mothers by age of mother: United States, 1980-92

when rates are lowest) increased 2 percent. Thus, the number of nonmarital births rose only 1 percent in 1992 compared with previous annual increases of 7 percent from 1980 to 1991.

Levels of nonmarital childbearing vary widely by State. The number and percent of births to unmarried women by race for each State are shown in table 16. The numbers of nonmarital births increased in all but eight States and the District of Columbia. The percent of nonmarital births increased in all but four States for all races and for white births. For black births this percent rose in 35 States and the District of Columbia and declined in 15 States.

Age of father

The birth rate for men declined by 2 percent in 1992, to 55.8 live births per 1,000 men aged 15-54 years. This rate declined 4 percent between 1990 and

1992, after rising 7 percent between 1986 and 1990 (table 17).

Rates by age declined by up to 1 percent for men in age groups 15–19 through 35–39 years, and by 3 percent for men aged 45–49 years. The rate for men aged 40–44 years increased 1 percent, and the rates for men in age groups 50–54 and 55 years and over did not change. In the period 1986–90 rates by age of father had risen by 6–31 percent, with the largest increases reported for men in age groups 15–24 and 35–49 years.

The birth rate for white men declined 2 percent, to 52.2, and the rate for black men declined 3 percent, to 81.0. Rates by age for white men changed in the same pattern as rates for all races. All rates by age for black men, except for those aged 55 years and over, declined in 1992 by up to 3 percent. The declines in rates for both white and black men between 1990 and 1992 reversed the strong upward trends observed in rates between 1986 and 1990.

Educational attainment

Beginning with 1992 data, all 50 States and the District of Columbia reported information on the educational attainment of the mother. This important item is considered an indicator of socioeconomic status and has been correlated with various aspects of fertility behavior such as contraceptive use and receipt of prenatal care. Table 18 shows that more than three-fourths of mothers had 12 years or more of schooling (76 percent). The modal group was mothers whose completed education was high school (37 percent), followed by those with some college (21 percent) and college graduates (19 percent). Mothers giving birth in 1992 were slightly more educated than those who gave birth in 1991, with a higher percent having at least some college—40 percent in 1992 compared with 38 percent in 1991.

Women who gave birth in 1992 had educational attainment very similar to that of all women 15–49 years of age

(13), but there were differences within individual age groups. In age groups under 30 years, women who gave birth had less education than all women in general, both in terms of those having at least a high school diploma and those having at least some college. For example, for women aged 20-24 years who gave birth in 1992, 72 percent had at least a high school diploma, while 25 percent had at least some college compared with 86 and 52 percent, respectively, for all women in that age group. Childbearing by younger mothers would tend to limit their educational attainment. However, women who gave birth at 30 years of age and over had more education than all women of their respective ages. In 1992 approximately 60 percent of mothers in age categories of 30 years and over had completed at least some college compared with 51 percent of all women 30-49 years of age (tabular data not shown). This difference is partly because many women of these ages postponed childbearing to attain additional education (18).

Nearly 80 percent of white mothers had at least a high school diploma compared with 70 percent of black mothers. For white mothers the percent with at least a high school diploma increased with additional age, to a peak of 90 percent for those 30-34 years before declining slightly to 86 percent for mothers 40 years of age and over. The pattern by age for black women was similar to that for white women, with those 30-34 years of age having the highest proportion (85 percent) with at least a high school diploma. Overall, the median educational attainment was 12.8 years for white mothers compared with 12.5 years for black mothers.

Tables 10 and 11 show the percent of mothers who had completed 12 years or more of schooling for other racial groups and by detailed Hispanic origin. Mothers who had completed 12 years or more of schooling ranged from under two-thirds (64 percent) of American Indians to nearly all (98 percent) of Japanese women. The percent of mothers who had completed 12 years or more of schooling was much lower for those of Hispanic origin (46 percent) than for non-Hispanic women (82 percent). This finding reflects the fact that Hispanic women generally

have low educational attainment. However, there were large differences in educational attainment among detailed Hispanic subgroups, ranging from 39 percent with 12 years or more of schooling for Mexican women to 84 percent for Cuban women.

Maternal life-style and health characteristics

Maternal weight gain

A large number of studies indicate that maternal weight gain has a profound effect on fetal growth and that an inadequate gain is associated with an increased risk of low birthweight (less than 2,500 grams), intrauterine growth retardation, perinatal mortality, and shortened period of gestation (19,20). Information on maternal weight gain has been available from certificates of live birth since 1989. In 1992 the District of Columbia and all States except California included this item on their birth certificate (85 percent of all births in the United States). Data on weight gain by race and ethnicity of mother are presented in tables 19-24.

Liberalized guidelines on weight gain based on a woman's prepregnancy weight for height were issued in 1990 by the Institute of Medicine (IOM) of the National Academy of Sciences. The guidelines recommended that a mother of average size gain 25-35 pounds for optimum pregnancy outcome and that very young women and black women gain toward the upper limit of the range suggested for their weight and height (19). Between 1990 and 1992 the proportion of mothers gaining 26-35 pounds decreased (from 35.6 percent to 34.8 percent), with a concomitant rise in gains of more than 35 pounds (from 28.4 percent to 29.9 percent). However, coincident with this increase in higher gains, weight gains of less than 16 pounds—an amount associated with a greatly-elevated risk of low birthweight (less than 2,500 grams)—rose from 9.2 percent to 9.7 percent. Because of this compensating shift in the weight gain distribution, median weight gain was almost unchanged, increasing from 30.4 pounds to 30.5 pounds. The median weight gain of white mothers also changed very little during

this period, from 30.6 pounds to 30.7 pounds, but weight gain increased by 0.5 pounds for black mothers, from 28.1 pounds to 28.6 pounds (table 19).

White mothers are more likely than black mothers to gain 26-35 pounds (36.1 percent compared with 28.9 percent) and also more likely to gain 36 pounds or more (30.9 percent compared with 26.2 percent). Weight gains of less than 16 pounds are nearly twice as frequent for black than for white mothers (15.8 percent compared with 8.3 percent). Some of this racial disparity is explained by the generally shorter gestational age of black infants. However, for matched periods of gestation, there remain very substantial racial differentials in weight gain. On the average, white mothers gained 2.1 pounds more than black mothers in 1992—30.7 pounds compared with 28.6 pounds (table 19). According to a survey of women who gave birth in 1988, advice about weight gain differed substantially for white and black mothers. A significantly higher proportion of black than white mothers reported weight gain advice that did not conform to the standards for maternal weight gain at that time (21).

There are also substantial differences in weight gain among other racial groups (table 23). Only 7.0 percent of Chinese mothers gained less than 16 pounds in 1992 compared with 8.0 percent of Filipino, 8.9 percent of Hawaiian, 9.3 percent of Japanese, 11.5 percent of "Other" Asian or Pacific Islander, and 14.0 percent of American Indian mothers.

Large differences in weight gain are also apparent among mothers of Hispanic origin (tables 21 and 24). In 1992 information on weight gain for Hispanic-origin mothers was available from all States except California and New Hampshire, and from the District of Columbia. Cuban and Central and South American mothers are the least likely to gain less than 16 pounds (7.1 and 10.4 percent, respectively), and Mexican mothers, the most likely (13.0 percent); 11 percent of Puerto Rican and "Other" and unknown Hispanic-origin mothers had this low a weight gain.

Weight gain during pregnancy is also closely linked to maternal age, educational attainment, and marital status (data not shown in this report). Mothers in their

mid- to late twenties and early thirties are the least likely to gain less than 16 pounds (9 percent), while mothers aged 40-49 years are the most likely to have this minimal a weight gain (13 percent). Approximately 10 percent of teenagers and women in their mid- to late thirties and 11 percent of women in their early twenties gained less than 16 pounds. Weight gain increases with educational attainment, and gains of less than 16 pounds are nearly three times as common for women with less than a grade school education (14 percent) than for women with 16 years or more schooling (5 percent). Unmarried mothers are far more likely than married mothers to gain less than 16 pounds (13 percent compared with 8 percent).

Numerous studies have confirmed the positive relationship between weight gain and birthweight (19). As indicated in table 20, the percent low birthweight declines dramatically for both white and black births with added weight gain, regardless of period of gestation. Thus, for white births the incidence of low birthweight declined from 12.2 percent for gains of less than 16 pounds to 3.9 percent for gains of more than 45 pounds. The steep decline in low birthweight with added weight gain is slightly greater for black births, with low birthweight decreasing from 23.4 percent for gains of less than 16 pounds to 6.6 percent for gains of 46 pounds or more. However, for equivalent weight gain, the incidence of low birthweight is approximately twice as high for black births. Virtually similar declines in low birthweight with additional weight gain are apparent for births to Hispanic-origin mothers (table 22). The decline with added weight gain is particularly noticeable for Puerto Rican and Cuban births. The risk of low birthweight for Puerto Rican babies declined by 75 percent (from 17.8 percent to 4.5 percent) as weight gain increased from less than 16 pounds to 46 pounds or more; for Cuban mothers, low birthweight declined by 78 percent (from 15.3 percent to 3.4 percent) for comparable increases in weight gain.

A previous study (22) found that although cesarean rates generally rise with increased maternal weight gain, rates are about the same or lower than average when weight gain is less than 36 pounds.

Medical risk factors

Mothers with certain medical risk factors during pregnancy are more likely to have a cesarean delivery and other obstetric and delivery procedures. Adverse outcomes such as low birthweight, preterm birth, and congenital malformations have been associated with several medical risk factors (23).

The most frequently reported risk factors continue to be anemia (18.3 per 1,000 live births), diabetes (25.9), and pregnancy-associated hypertension (28.5) (table 25). Between 1989 and the current year, the reported diabetes rate has increased steadily, from 21.1 to 25.9. Also increasing fairly steadily over this period were hydramnios/oligohydramnios (5.7 to 7.9) and acute or chronic lung disease (3.0 to 4.2). The reported incidence of eclampsia, however, declined between 1989 and 1992, from 4.4 to 3.6. Rates for the other medical risk factors remained quite stable.

Young mothers under 20 years of age were at especially increased risk of anemia (26.8), hemoglobinopathy (0.8), eclampsia (5.6), and renal disease (2.9). Rates for these factors tended to decrease with advancing age and then rise slightly for mothers 40 years and older.

For the first year since this item has been reported, the rate for acute or chronic lung disease, which includes diseases such as asthma, pneumonia, and tuberculosis, was higher for the youngest mothers—those under 20 years of age—than for the oldest mothers—those aged 40 years and older. Although increases were noted for each age group over past years, the rise was most pronounced among teenage mothers. Levels for the oldest mothers remained high, resulting in rates that were elevated at either end of the age range. Pregnancy-associated hypertension and hydramnios/oligohydramnios followed a similar U-shaped pattern of occurrence.

Factors more directly associated with older age of the mother are cardiac disease, diabetes, chronic hypertension, incompetent cervix, and uterine bleeding. Rates for genital herpes increased

steadily with age, but peaked at ages 35–39 years. Although rates for genital herpes were similar for black and white women (8.5 compared with 7.9 percent), reverse patterns by age were observed; rates increased with age for white mothers but decreased for black mothers.

Black mothers had disproportionately higher rates (67-105 percent) for anemia, chronic hypertension, eclampsia compared with white mothers. Among older mothers, the racial disparity for chronic hypertension widened; black mothers 30 years and older were approximately three times as likely as white mothers of the same age to have this medical risk factor. Rates for pregnancyassociated hypertension were slightly lower among black mothers (27.7) compared with white mothers (29.2), but by 30–34 years of age, the risk for black mothers was 8 percent higher than that for white mothers. A similar pattern by age was observed for diabetes.

Eclampsia and incompetent cervix were associated with a substantially elevated risk of poor outcome. For 1992, infants born to mothers with eclampsia were three times as likely to be born preterm and more than six times as likely to be very low birthweight (less than 1,500 grams). Thirty-nine percent of births to mothers with an incompetent cervix were preterm births (less than 37 completed weeks of gestation) compared with 10.7 percent of all births; nearly one of every five were very low birthweight compared with one of every one hundred of all births.

The risk of a low (less than 2,500 grams) or very low birthweight or preterm birth was greater for black than for white mothers for each of the medical risk factors associated with these outcomes. Black mothers with chronic hypertension had a 53 percent greater likelihood of a preterm birth and were 64 percent more likely to have a lowbirthweight baby compared with white mothers with this condition. The risk of very low birthweight— an even stronger indicator of poor outcome—for black mothers with eclampsia, renal disease, uterine bleeding, pregnancy associated hypertension, and incompetent cervix was between 61 and 131 percent higher for black than for white births.

The four most frequently reported medical risk factors are shown for other racial groups in table 26. Rates for all factors (anemia, diabetes. pregnancy-associated hypertension, and uterine bleeding) were substantially higher for American Indian mothers than for any other racial or ethnic group. This pattern has been observed for several vears (24). For example, the American Indian anemia rate of 57.0 per 1,000 was 82 percent higher than the rate for black mothers (31.3) and eight times as high as the rate of 6.8 for Japanese mothers. Among American Indian mothers, the incidence of pregnancy-associated hypertension was four times as high as for Chinese mothers (42.1 compared with

Chinese mothers had the lowest reported levels of pregnancy-associated hypertension (9.9) and uterine bleeding (4.8) of all the racial groups and comparatively low levels of anemia (10.3). However, the Chinese diabetes rate of 41.4 was comparable to the high American Indian rate of 42.1. In fact, diabetes rates were elevated for each of the Asian or Pacific Islander groups in comparison with all racial groups except American Indian.

Hispanic mothers had rates of pregnancy-associated hypertension, diabetes, and uterine bleeding that compared favorably with those for white non-Hispanic mothers and may help to explain the similar levels of low birth-weight (table 27). Among Hispanic subgroups, rates for diabetes and uterine bleeding were highest for Puerto Rican mothers, whereas, the rate for pregnancy-associated hypertension was the highest for Cuban and for "Other" and unknown Hispanic mothers. "Other" and unknown Hispanic mothers also had the highest level for anemia.

Tobacco use

In 1992, 16.9 percent of mothers were reported to have smoked during pregnancy, a 5-percent decline from the 1991 level (17.8 percent), and a 13-percent reduction from 1989 (19.5 percent) when this information first became available on the birth certificate. (Data for 1992 are shown in tables 23, 24, and 28–31.) These trends are

comparable to those recently reported for women of reproductive age based on data from the National Health Interview Survey (25).

Cigarette smoking during pregnancy has been repeatedly associated with reduced infant birthweight, preterm delivery, and intrauterine growth retardation (26,27). All of these indicators of poor pregnancy outcome, in turn, are major predictors of infant mortality and infant and childhood morbidity. Sudden infant death syndrome (SIDS), which has been associated with low birthweight, has been directly linked in many studies to maternal smoking even after other factors have been considered (28). A very recently reported study also has associated infant and childhood asthma directly with maternal smoking during pregnancy (29). In that study it was also demonstrated that smoking, even in the earliest stages of pregnancy, will compromise the infant's health; there may be negative health consequences for the baby even if the mother discontinues smoking early in pregnancy.

Tobacco adversely affects pregnancy outcome in several ways. One of the most important of these is the passage of carbon monoxide from tobacco smoke into the fetal blood supply, thus depriving the growing infant of oxygen (27).

In 1992, 46 States and the District of Columbia—representing 76 percent of all U.S. births—reported maternal smoking on the birth certificate. California, Indiana, New York, and South Dakota did not provide this information at all, or did not provide it in a comparable format.

Smoking during pregnancy was reported at a higher rate for white than for black mothers in 1992, 17.9 percent compared with 13.8 percent. This differential has been observed since 1989. Smoking rates for both white and black women declined between 1989 and 1992, by 12 and 19 percent, respectively. Smoking rates for Asian women are generally very low-2-7 percent for Chinese, Japanese, Filipino, and "Other" Asian or Pacific Islander women. Hawaiian women however have a relatively high smoking rate, 18.5 percent, as do American Indian women, 22.5 percent (table 23). Data on tobacco use by Asian women (except Hawaiians) are somewhat compromised by the fact that California and New York do not report this information, and together they account for 44–63 percent of births in each Asian subgroup except Hawaiian. However, other studies have also shown low maternal smoking rates for Asian women (30,31).

Hispanic mothers also reported generally low rates of tobacco use, just 5.8 percent overall in 1992 (tables 24 and 29). Smoking rates ranged from 3 to 6 percent for Mexican, Cuban, and Central and South American mothers to 10-13 percent for Puerto Rican and "Other" and unknown Hispanic mothers. The incidence of smoking declined in all Hispanic subgroups. Data on smoking for Hispanic mothers are affected by the same limitation noted above for Asian women—the lack of information for California and New York births, which together account for about half of all Hispanic births. However, other studies corroborate the generally low smoking rates for Hispanic mothers (31,32).

Not only have Asian and Hispanic mothers had low smoking rates, but those who are foreign-born are even less likely to smoke than their U.S.-born counterparts. Three percent of foreign-born Asian mothers were reported as smokers compared with 13 percent of U.S.-born Asian mothers. Similarly, 3 percent of foreign- or Puerto Rican-born Hispanic mothers smoked compared with 9 percent of their U.S.-born counterparts (tabular data not shown).

Smoking rates vary considerably by maternal age. Among white mothers, the proportion smoking was highest for women aged 18-19 years (26 percent), followed by teenagers 15-17 years and women aged 20-24 years (23 percent). Smoking was least frequent among mothers aged 40 years and older (11 percent) (table 28). The pattern was quite different for black mothers, with smoking rates lowest for teenaged mothers (4–7 percent), increasing steadily to 21 percent for mothers in their thirties and then declining to 16 percent for mothers aged 40 and older. These variations by age and race have been observed for several years.

Smoking rates vary little by age among Hispanic women, with low overall smoking rates (table 29). Thus, for example, the proportion smoking varied from 2 to 5 percent for Mexican and Central and South American mothers and 5–7 percent for Cuban mothers. Rates varied more for Puerto Rican women, 9–14 percent.

The steady decline since 1989 in maternal smoking for mothers of all ages has been observed within most age groups as well. Smoking rates declined for white and black women in all age groups through 30–34 years and for women 40–44 years. The rate for white women aged 35–39 years had declined through 1991 and was unchanged in 1992; for black women 35–39 years the rate increased continuously, by 8 percent from 1989 to 1992.

The decline from 1989 to 1992 in the proportion of mothers who smoke has been accompanied by a growing tendency among women who smoke to smoke fewer cigarettes (table 28). During this period there have been small but steady increases in the proportion of women who smoke half a pack of cigarettes (10 cigarettes) or less, from 58 to 62 percent. The proportion smoking 1–5 cigarettes has also increased from 19 to 21 percent.

As has been the case in previous years, white mothers in 1992 not only had higher smoking rates than black mothers, but those who smoked were heavier smokers. For example, among white smokers, 34 percent smoked 16 cigarettes or more per day compared with 19 percent of black mothers. Conversely, just 19 percent of white mothers smoked one to five cigarettes daily compared with 35 percent of black mothers.

Smoking rates vary in a distinctive pattern according to the mother's educational attainment (table 30). Women with 9-11 years of schooling had the highest smoking rate, at 31 percent overall; 38 percent of women aged 20 years and older in this education group were reported as smokers. The rate was lowest for college graduates, just 4 percent. The relationships between smoking status and educational attainment were similar for white and black mothers; however, white mothers had higher smoking rates than black mothers in each educational attainment subgroup, except those who are college graduates. The disparity by race was greatest among women with 9-11 years of schooling, with 36 percent of white mothers reported as smokers compared with 19 percent of black mothers.

Groups with the highest smoking rates also tend to be the heaviest smokers. For example, 40 percent of mothers with 9–11 years of education smoked at least half a pack of cigarettes daily compared with 26 percent of college graduates who smoked. This pattern was observed for white and black mothers, but the proportions of heavy smokers were substantially greater for white mothers.

Maternal smoking has been shown repeatedly to severely compromise infant birthweight (26.27). In 1992 babies born to smokers were at nearly twice the risk of low birthweight (less than 2.500 grams) as babies born to nonsmokers, 11.5 percent compared with 6.3 percent (table 31). These variations in low birthweight rates by smoking status were observed in 1989-91 as well (1-3). The effect of smoking on infant birthweight becomes more severe with advancing maternal age. Infants born to teenagers who smoked were at 12-26 percent greater risk of low birthweight. For births to mothers aged 20–24 years the disparity was 53 percent, while for mothers aged 25 years and older the risk of low birthweight was more than double for births to smokers.

The impact of smoking on birthweight was observed for white and black infants alike. The low-birthweight rates for white babies were 9.7 percent for births to smokers and 5.0 percent for births to nonsmokers. The proportions were much higher for black babies, but the disparity by smoking status was clear—22.1 percent of births to smokers and 11.9 percent of births to nonsmokers were low birthweight.

The percent low birthweight for births to women who smoke the fewest cigarettes, less than six per day, was still 41 percent higher than for births to nonsmokers, 8.9 percent compared with 6.3 percent. As the number of cigarettes smoked increases, the percent low birthweight is elevated (26,33). For example, in 1992 among white infants, the percent rose from 6.9 percent for births to the lightest smokers to 11.4 percent for births to mothers smoking at least one and one-half packs of cigarettes daily. Similarly, among black infants, the increase in

low birthweight was from 15.2 percent for women smoking less than six cigarettes a day to 24.8 percent for the heaviest smokers. It is apparent that there is no level of cigarette smoking that is not harmful to the infant.

One way to evaluate the overall impact of smoking on low birthweight is to estimate the risk of low birthweight that is attributable to maternal smoking (the percent attributable risk) (34,35). Approximately 13 percent of the lowbirthweight incidence in the United States in 1992 can be attributed to smoking during pregnancy. In other words, if no pregnant women had smoked during pregnancy, the proportion of low birthweight would have been about 6.1 percent rather than the actual level of 7.1 percent, and about 40,000 fewer babies would have been born with low birthweight in 1992.

Alcohol use during pregnancy

The use of alcohol during pregnancy is also a risk factor for poor pregnancy outcome. Studies have shown that heavy alcohol use causes a variety of adverse effects, the most severe of which is fetal alcohol syndrome (FAS). FAS is characterized by growth retardation, facial malformations, and dysfunctions of the central nervous system, including mental retardation and behavioral disorders (36). Additionally, maternal alcohol use has been shown to compromise infant birthweight, independent of factors such as maternal smoking and other maternal and infant characteristics (33,37).

In 1992 data on alcohol use were reported by 47 States and the District of Columbia, accounting for 78 percent of U.S. births. This information was not reported on the birth certificates for California, New York, and South Dakota.

Reported alcohol use declined for women in nearly all racial and Hispanic-origin groups in 1992, as it has since 1989 when the data first became available. In 1992, 2.6 percent of births were to mothers who reported drinking during pregnancy compared with 2.9 percent in 1991 and 4.1 percent in 1989. Black mothers were more likely than white mothers to report alcohol use (3.3 percent compared with 2.4 percent). The highest

reported use was among American Indian mothers (6.6 percent) and the lowest among Filipino, "Other" Asian, Cuban, and Central and South American mothers (0.7–0.9 percent) (tables 23–24, and 32). As was the case for data on maternal smoking, the data on maternal alcohol use for Asian and Hispanic women exclude information for California and New York residents who account for 44–63 percent of births in racial (except Hawaiian) and Hispanic subgroups. However, other studies indicate that alcohol use among Hispanics is about half that of black women (38).

Alcohol use during pregnancy is clearly substantially underreported on the birth certificate. Other studies have shown alcohol use during pregnancy of 20 percent or more, based on data from personal interviews and written questionnaires (39,40). It is believed that the underreporting on the birth certificate is a consequence of the way the question is framed, focusing on the number of drinks per week. Women who have had an occasional drink during pregnancy, perhaps once a month or less, may not consider this to be alcohol use for purposes of the question. Another factor that is probably causing underreporting is the stigma that is associated with alcohol use, especially during pregnancy (41).

The patterns of alcohol use by maternal age have changed little since this information first became available in 1989. The proportion reported as drinkers rose from 0.8 percent for mothers under 15 years of age, to 3.9 percent for mothers aged 35–39 years, and then declined slightly to 3.5 percent. These patterns were observed for both white and black women (table 32).

Among women who used alcohol in 1992, 61 percent reported one drink or less per week, 17 percent reported two drinks, 11 percent reported 3–4 drinks, and 12 percent reported five drinks or more. These figures were comparable to those observed in 1991 (3).

Alcohol use does not vary in a consistent way according to mother's educational attainment. The highest reported rate was among mothers with 9–11 years of schooling, 3.3 percent, followed by mothers who were college graduates, 2.8 percent (tabular data not shown).

Although maternal drinking is sharply underreported, the use that is reported is associated with an elevated rate of low birthweight (less than 2,500 grams). The proportion low birthweight for babies born to drinkers was 12.9 percent compared with 7.0 percent for babies born to nondrinkers. Heavy drinking is linked to even greater rates of low birthweight. The percent low birthweight rose from 9.0 percent of births to women having one drink or less per week to 24.5 percent of births to women who had five drinks or more per week (tabular data not shown). In addition, studies have shown that when alcohol and tobacco are both used, the impact on infant birthweight is further worsened (33).

Medical services utilization

Prenatal care

The first notable advance in prenatal care utilization in more than a decade occurred in 1992. The proportion of mothers beginning prenatal care in the critical first trimester of pregnancy rose to 78 percent, the highest level ever reported. Since 1979, the percent of mothers receiving early care had remained essentially stable at around 76 percent. Further, the proportion of mothers delaying care until the third trimester, or who received no care at all, declined to 5 percent; it had been at 6 percent from 1983 to 1991. (See tables 34–36 for 1992 data.)

As in previous years, older mothers initiated care earlier than younger mothers. For 1992, 86 percent of mothers aged 30–39 years began care in the first trimester compared with only 59 percent of mothers under 20 years of age. Teenage mothers (15–19 years) also were at higher risk of delayed or no care (10 percent) than mothers in their thirties (3 percent).

Although distinct racial differences in the receipt of prenatal care persist, increases in early care were noted for both white and black mothers and reached the highest levels ever reported for both racial groups. The proportion of white mothers beginning care in the first trimester increased to 81 percent for 1992 compared with 79 percent for 1991. After

deteriorating to 60 percent in 1989, the percent of black mothers receiving early care has been on the increase, rising to 64 percent for 1992. Improvements were noted for both races for each age group and for married and unmarried women.

Timely, adequate prenatal care is known to have a beneficial effect on birth outcome. As has been observed for earlier vears, in 1992 mothers who initiated care early were less likely to have a lowbirthweight infant (6.4 percent) than were mothers with late or no care (11.9 percent). Although it is likely that the comparative lack of adequate care of black mothers contributes to their much higher levels of low birthweight, racial differences in pregnancy outcome remain after controlling for the amount and timing of prenatal care, suggesting that these factors are limited predictors of outcome (42). Several studies have suggested that the content of care; that is, advice on weight gain and behavior modification and technological procedures performed may vary by race and contribute to the poorer birth outcomes of black infants (21,43,44).

The Kessner Index was developed to take into account both the timeliness and quantity of prenatal care, as well as the gestational age of the baby. Care is defined as "adequate," "intermediate," or "inadequate." For 1992, 70 percent of all mothers received adequate care and 7 percent received inadequate care. Although slight improvements over 1991 were found in the adequacy of prenatal care for both white and black mothers, racial differences remain substantial: 74 percent of white mothers—compared with 54 percent of black mothersreceived adequate care in 1992. The proportion of black mothers receiving inadequate care (15 percent) was more than twice as high as that for white mothers (6 percent).

In spite of increases in the timeliness of care, there was no concurrent increase in the median number of prenatal visits from 1991, or any amelioration of the racial gap, as median was unchanged for white (12.2) and black mothers (10.7). However, this racial differential in the median number of prenatal visits dissipates considerably when examined by marital status and gestation. The median

visits for married black mothers with a birth of at least 37 completed weeks of gestation was 12.2 compared with 12.5 visits for white mothers.

The early receipt of prenatal care varied substantially among other racial and ethnic groups, ranging from 62 percent for American Indian mothers to 88 percent for Japanese mothers (tables 23 and 24). Overall, 64 percent of Hispanic mothers initiated care in the first trimester, but for specific Hispanic groups the range was from 62 percent for Mexican mothers to 87 percent for Cuban mothers.

Ten percent of all Hispanic mothers delayed care until the final trimester or received late or no prenatal care—levels similar to those for black and American Indian mothers. In contrast, 2–3 percent of Chinese, Japanese, Cuban, and white non-Hispanic mothers received late or no prenatal care.

The New England States, Iowa, Maryland, and Utah reported the highest proportions of mothers beginning care in the first trimester (85 to 89 percent) (table 35). Except for Maryland these States also had the lowest levels of mothers who had received late or no care (2–3 percent). The most elevated levels of late or no care for white mothers were reported in States with large Mexican populations-New Mexico and Texas (9 percent), Arizona (8 percent), and Nevada (7 percent). For States with at least 1,000 black births, Minnesota, Nevada. New York, the District of Columbia, and Pennsylvania reported the highest proportions of mothers with delayed or no care (14 to 17 percent). Increases in the early receipt of care and decreases in late or no care between 1991 and 1992 were observed for the vast majority of States.

Obstetric procedures

The most prevalent obstetric procedure in 1992, reported for over 3 million births, or 77 percent of all live births, was electronic fetal monitoring (EFM) (table 36). EFM usage in 1992 rose for the third consecutive year. All age groups experienced increases in EFM compared with 1991, again the third year for this to occur. Data from two surveys conducted by the National Center for Health

Statistics demonstrate that EFM usage rose substantially during the 1980's, from 45 percent in 1980 to 62 percent in 1988 (45).

In 1992 the difference in EFM usage between births that were low birthweight (less than 2,500 grams) and those that were 2,500 grams or more was only 1 percent (76 and 77 percent, respectively). Sixty-eight percent of mothers who had repeat cesarean sections had EFM compared with 78 percent for primary cesarean sections and 86 percent for vaginal births after cesarean section (VBAC) (tabular data not shown). Hawaiian and white mothers had the highest (78 percent) and Filipino mothers had the lowest (68 percent) rates in EFM usage in 1992 (table 26). Among Hispanic-origin subgroups, the lowest rate was for Mexican mothers, 65 percent (table 27).

In 1992 just over 900,000 live births did not receive EFM, and according to the American College of Obstetricians and Gynecologists, "Currently available data support the conclusion that, within specified intervals, intermittent auscultation (listening to sounds within the body with or without a stethoscope) is equivalent to continuous electronic fetal monitoring in detecting fetal compromise" (46). Thus, these births did not necessarily run an additional risk of undetected fetal compromise. Intermittent auscultation in normal labor is now supported by several studies to be adequate (47).

Ultrasound screening during pregnancy can detect fetal growth retardation, placental abnormalities, multiple gestation pregnancies, and congenital anomalies (48,49). It can also expose pregnant women to the slight risk of false positive diagnosis of malformations. Recent studies have suggested that ultrasound usage might not improve perinatal outcome, maternal management, or maternal outcome (50).

According to data from birth certificates, 58 percent of mothers who had live births in 1992 received ultrasound, a 21-percent increase over 1989 (48 percent). Results from the 1988 National Maternal and Infant Health Survey show ultrasound usage at 63 percent (51), which suggests that there may be underreporting of ultrasound on the birth certificate. Chinese mothers had the lowest

rates in ultrasound usage (48 percent) and white mothers had the highest (59 percent) (table 26). Data by Hispanic origin (table 27) show the rate for Mexican mothers to be lowest (at 40 percent) of all Hispanic groups.

Ultrasound is routinely used for needle guidance during amniocentesis and, in 1992, 85 percent of mothers who had amniocentesis also had ultrasound, while 57 percent of mothers who did not have amniocentesis had ultrasound (tabular data not shown). Sixty-three percent of all births by cesarean delivery and VBAC births received ultrasound, higher than the 55 percent for other vaginal births (tabular data not shown).

The overall rates of stimulation and induction of labor in 1992 were 129 and 114 per 1,000 live births, respectively. Mothers aged 25-29 years had the highest rate of stimulation of labor (132 per 1,000) and mothers aged 40-49 years had the lowest (121 per 1,000) (table 36). Induction of labor rates had a slightly larger range by age, from 98 for the youngest mothers to 127 for the oldest mothers. For both stimulation and induction of labor, white mothers had the highest rates while Filipino mothers had the lowest (table 26). Both of these procedures were more likely to be employed for births where infant birthweight was high. The range in rates between infants weighing less than 2,500 grams (low birthweight) and those over 4,000 grams for stimulation was from 85 to 138 per 1.000 live births and for induction, from 93 to 160 (tabular data not shown).

Amniocentesis, an invasive prenatal diagnostic procedure performed to detect genetic disorders, was reported for 32 of every 1,000 live births in 1992 (tables 26, 27, and 36). The rate of amniocentesis for the oldest age group (40–49 years) was 17 times the rate for the youngest age group (under 20 years)—192 compared with 11. Similar differences by age were observed for white mothers. For black mothers the difference between the oldest and youngest age groups was elevenfold (106 compared with 9). Japanese mothers had the highest rate (87 per 1,000 live births) while black mothers had the lowest rate (18 per 1,000). White non-Hispanic mothers had a rate nearly three times higher than Mexican mothers (38 compared with 14).

Tocolysis, which is used to avoid preterm birth, was the least prevalent (19 per 1,000 live births) of procedures identified on the birth certificate. However, over one-third of mothers who had tocolysis still delivered preterm. White mothers were more likely than black mothers to have received tocolysis (19 and 16, respectively). Among black and white mothers, rates by age were highest for mothers under 20 years of age (17 and 23, respectively).

Rates for the six selected procedures vary by the education of mother, birthweight and gestational age of the infant. and month prenatal care began (tabular data not shown). All of these procedures had higher rates for mothers with 12 years or more of education compared with mothers who had less schooling. The rates for amniocentesis showed the greatest difference between mothers with 12 years or more of education and mothers with less education (37 compared with 14). Mothers giving birth to low-birthweight (less than 2,500 grams) or preterm (less than 37 completed weeks of gestation) infants were much more likely than those giving birth to normal birthweight or full-term births to have had amniocentesis (2.1 and 1.7 times greater) or tocolysis (5.0 and 4.4 times greater). The rates for all six of these procedures were higher for mothers who began prenatal care in the first trimester of pregnancy as compared with mothers who began prenatal care later. For amniocentesis the rate was more than twice as high (36 compared with 17).

Complications of labor and/or delivery

Of the 15 reported complications of labor and/or delivery, 6 were reported at a rate greater than or equal to 30 per 1,000 live births in 1992: Meconium, moderate/heavy (61 per 1,000); fetal distress (42 per 1,000); breech/malpresentation (38 per 1,000); and cephalopelvic disproportion, premature rupture of membrane (PROM), and dysfunctional labor (30–33 per 1,000 (table 37).

For these six complications there were observable variations by race and Hispanic origin (tables 26 and 27). Black mothers had the highest rates of all races for meconium and fetal distress; Japanese

mothers, for breech/ malpresentation; Filipino mothers, for cephalopelvic disproportion; and American Indian mothers had the highest rates of all races for PROM and dysfunctional labor. Japanese mothers had the lowest rates of all races for meconium; Hawaiian mothers, for fetal distress and dysfunctional labor; black mothers, for breech/malpresentation; American Indian mothers, for cephalopelvic disproportion; and Filipino mothers had the lowest rates of all races for PROM. By Hispanic origin, Cuban mothers had the highest rate for dysfunctional labor. Mexican mothers had the lowest rates for PROM, dysfunctional labor, and breech/malpresentation.

Distinctions by age of mother were observed in the rates of three of the six most prevalent complications (table 37). The highest rates of meconium and fetal distress were for the youngest (under 20 years of age) and oldest (40–49 years of age) mothers; the lowest rates were for mothers in the middle years of childbearing (25–34 years of age). The oldest mothers had the highest rates of breech/malpresentation, while the youngest mothers had the lowest rates.

Although not frequent, placenta previa is a serious complication and occurred in over 55,000 births between 1989 and 1992 (4 per 1,000 live births). Increasing age of mother and live-birth order have been shown to increase the risk of this complication (52). Data from birth certificates during this 4-year period also identify these two risk factors, particularly increasing age of mother (tabular data not shown).

Of the six most prevalent complications, four—breech/malpresentation, dysfunctional labor, PROM, and cephalopelvic disproportion—occurred more often to mothers with 13 years or more of education than for mothers with lower educational attainment; two—meconium and fetal distress— occurred more often to mothers with less than 13 years of education (data not shown here). The same pattern is observed for white mothers. For black mothers meconium was the only complication of the six most prevalent with a higher rate for mothers with less than 13 years of education.

Rates for four complications—meconium, prolonged labor, dysfunctional labor, and cephalopelvic disproportion—were

lower for low-birthweight infants (less than 2,500 grams) than for infants weighing 2,500 grams or more. Of these four, rates were higher for dysfunctional labor and, particularly, cephalopelvic disproportion for mothers who gained more weight during pregnancy, regardless of the weight of the infant (data not shown here). Of the remaining 11 complications that had higher low-birthweight for infants. four-PROM, abruptio placenta, placenta previa, and seizures during labor—had rates at least four times those of infants weighing 2,500 grams or more. These same four complications, with considerable differences by birthweight, also had large differences (three to eight times as high) in rates for those born preterm (less than 37 completed weeks of gestation) when compared with term births.

Attendant at birth and place of delivery

The 1989 revision of the U.S. Standard Certificate of Live Birth requested more detailed information on place of delivery and attendant at birth than formerly. Four years of information are now available for deliveries by certified nurse-midwives as distinguished from "Other" or lay midwives; for doctors of osteopathy (D.O.'s) separately from other medical doctors (M.D.'s); and for free-standing birthing centers, clinics or doctor's offices, and residences.

In 1992, as in all previous years, almost all births (94.2 percent) were attended by physicians (M.D.'s and D.O.'s) in a hospital setting (table 38), down slightly from 94.5 percent in 1991. There has been a steady decline in such births since 1975, the first year for which comparable data are available, when 98.4 percent of all births were physicianattended hospital births. Concomitantly, the proportion of all births attended by midwives in hospitals increased from 0.6 percent in 1975 to 3.9 percent in 1991 and to 4.4 percent in 1992. The overall proportion of births delivered in hospitals changed verv little during period—declining from 99.1 percent in 1975 to 98.9 percent in 1992, while outof-hospital births increased from 0.9 percent to 1.1 percent of all births. The proportion of all births that were attended by physicians, midwives, and others in an out-of-hospital setting was relatively stable from 1975 to 1992; declining from 0.4 percent to 0.3 percent of all births for physicians, and increasing from 0.3 percent to 0.5 percent for midwives and from 0.1 to 0.3 percent for other attendants.

Freestanding birthing centers are nonhospital facilities that provide maternity care for women judged to be at low risk of pregnancy-associated complications. Although only a small proportion of births are delivered in such sites (0.3 percent in 1992), there is considerable interest in this setting as an alternative to hospital delivery. A recent article concluded that birthing centers offer a safe and cost-effective alternative to hospital delivery for low-risk women (53). In 1992, 30.4 percent of the births in freestanding birthing centers were attended by physicians and 67.2 percent were attended by midwives.

Births in private residences (home births) comprised 0.6 percent of all births, essentially the same as in 1989–91 (0.7 percent). In 1992, 18.1 percent of home births were delivered by physicians; 43.4 percent, by midwives; and 38.5 percent, by other attendants.

In 1992, D.O.'s delivered 3.4 percent of all births, almost all in hospitals (99 percent). This was approximately the same proportion of births delivered by D.O.'s in 1991 (3.3 percent), but a somewhat higher percent than in 1989 (2.8 percent), the first year for which such information is available.

Certified nurse-midwives (CNM's) are registered nurses who have completed graduate-level programs in midwifery and have been certified by the American College of Nurse-Midwives (54). They provide prenatal care and manage the labor and delivery of women who have been determined to be at low risk of obstetrical complications. Because not all States license CNM's, some births delivered by CNM's have been classified in the "other midwife" category. It can be assumed that almost all births attended by other midwives in hospitals and birthing centers were delivered by CNM's. In 1992 midwives delivered 4.4 percent of hospital births and 67.2 percent of births in freestanding birthing centers. Both of these proportions have increased each year since 1989, when 3.1 percent of hospital births and 63.1 percent of freestanding

birthing-center births were delivered by midwives. CNM's were identified as the attendant for 11.5 percent of home deliveries compared with 12.6 percent in 1989.

There are distinct differences in the population of women who deliver in hospitals, birthing centers, or private residences; and within each of these settings, there are also large dissimilarities by attendant. For example, mothers giving birth in hospitals, who closely mirror the characteristics of all women giving birth, tend to be younger than mothers giving birth in birthing centers or at home. Of hospital births, 13 percent were to teenagers and 32 percent were to mothers 30 years or older. By contrast, only 9 percent of the mothers delivering in birthing centers and 7 percent delivering at home were in their teens; 36 percent of the mothers delivering in birthing centers and 46 percent delivering at home were at least 30 years of age. Mothers who deliver in hospitals attended by midwives tend to be younger than mothers attended by physicians.

Although approximately the same proportion of mothers who delivered in a hospital, in a birthing center, or at home had at least 13 years of education (40-42 percent), mothers delivering in a birthing center or at home were more than twice as likely to have less than 8 years of schooling than mothers delivering in a hospital (16 percent compared with 6 percent). There is also considerable variation according to attendant in years of schooling completed. Mothers attended by physicians in hospitals are more likely to have completed 13 years or more of schooling than those attended by midwives in hospitals, but for out-ofhospital deliveries, mothers attended by midwives generally have higher levels of educational attainment than those delivered by physicians.

Other notable differences in the characteristics of women by attendant and place of delivery include the percent who are foreign born (higher for midwifethan for physician-attended births both in and out of hospitals); the proportion of mothers who are unmarried (higher for midwifethan for physician-attended births in hospitals, but higher for physicians than for midwives out of hospital); and the proportion of mothers who areblack (higher for midwives than for

physicians in hospitals, but far higher for physicians in a nonhospital setting).

Method of delivery

The overall rate of cesarean delivery (number of births delivered by cesarean per 100 total births) in 1992 was 22.3 percent (table 39). This is 0.5 percentage points, or 2.2 percent lower than the 1989 rate of 22.8 (table 40), the first year for which data on method of delivery are available from birth certificates.

Of the 888,622 cesarean births in 1992, 62 percent were primary or first cesareans, and 38 percent were repeat cesareans (table 39). These proportions are almost unchanged since 1989 (1–3 percent). Primary cesarean rates (first cesareans per 100 live births to women who had no previous cesarean) declined by 3 percent between 1989 and 1992, from 16.1 to 15.6 (table 40).

Among the national objectives for health promotion and disease prevention for the year 2000 are reductions in the overall cesarean rate to 15 or less, and in the primary cesarean rate to 12 or less (55). In 1992, as in 1991, no State had a cesarean rate as low as 15, and only 19 States had a cesarean rate of 20 or less (compared with 18 states in 1991). On the other hand, seven States had a primary cesarean rate of 12 or less compared with six States in 1991. (State data are not shown in this report.)

Both overall and primary cesarean rates increase rapidly with maternal age (table 39). In 1991 the overall cesarean rate for women in the oldest years of childbearing (40-49 years) was 31.7, almost double the rate of 16.1 for teenagers; the primary cesarean rate for the oldest mothers was 22.4 percent, 57 percent higher than the rate of 14.3 percent for the youngest mothers. Advanced maternal age appears to be an independent risk factor for cesarean delivery. Older mothers are more likely to deliver by cesarean regardless of race, Hispanic origin, parity, marital status, or educational attainment (22).

When age and birth order are considered together, rates were highest for women aged 40–49 years having their first (45.2 percent) or second child (36.0 percent) and for women 35–39

years having their first child (38.6 percent), while the lowest rates were for teenagers having a second- or higher-order birth (14.9 percent). For women 20 years or older, cesarean rates were highest for first-order births and declined for successive births (figure 4).

Vaginal birth after a previous cesarean delivery (VBAC) has become increasingly common in the United States, although still far below the frequency in many European countries (56). In 1992, 22.6 percent of women who had a previous cesarean delivered vaginally and 77.4 percent had a repeat cesarean. The VBAC rate (number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean) has risen at least 1 percentage point each year since 1989 when it was 18.9 percent (table 40). The year 2000 objective pertaining to VBAC is for a rate of 35 (55). In 1992 only four States had reached this objective, one less than in

1991. VBAC rates are highest for teenagers (26.3) and decline steadily with advancing age, to 17.1 for women aged 40–49 years.

There is little or no difference in cesarean and VBAC rates for white and black mothers. In 1992 the total cesarean rate was 22.5 for white mothers and 22.1 for black mothers; the primary rate was 15.7 for both racial groups, and the VBAC rate was 22.5 for white mothers compared with 22.4 for black mothers. However, there continue to be very substantial differences in rates among other racial groups, even when differences in the age distribution of mothers are considered (22). In 1992 the highest cesarean rate was for Filipino mothers (24.3), and the lowest was for American Indian (17.9), Hawaiian, and "Other" Asian or Pacific Islander mothers (18.0) (table 23). Mothers of Hispanic origin as a group were less likely to have a cesarean delivery (21.2 percent) than non-Hispanic

white (22.8 percent) or non-Hispanic black mothers (22.2 percent). Cuban mothers had the highest rate of any Hispanic origin group (33.9), with rates for other Hispanic groups ranging from 20.5 for Mexican mothers to 22.5 for "Other" and unknown Hispanic mothers (table 24).

Cesarean and VBAC rates for the maternal medical risk factors, complications of labor and/or delivery, and obstetric procedures included on birth certificates are shown in table 41. Compared with the overall cesarean rate of 22.3, rates were at least 50 percent above this average for 6 of the 14 medical risk factors of pregnancy, ranging from 35.8 for diabetes to 51.0 for eclampsia. Even higher cesarean rates are evident for many complications of labor and delivery, with rates at least 50 percent more than average for 11 of the 15 complications tracked on birth certificates. Rates are particularly high for placenta previa (81.7), breech/malpresentation

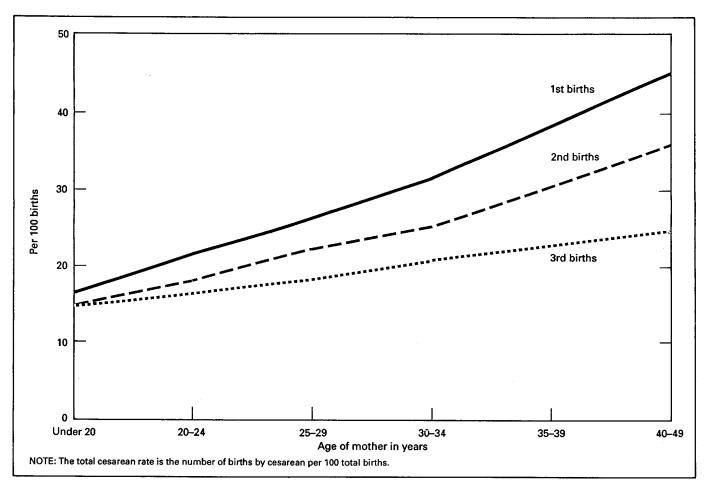


Figure 4. Total cesarean rates by age of mother an live-birth order: United States, 1992

(85.0), and cephalopelvic disproportion (97.8). Amniocentesis was the only obstetric procedure with a greatly elevated cesarean rate (35.6). The 1992 cesarean rates for almost all of these conditions and procedures are fairly close to those in 1989–91, and, as in previous years, generally quite similar for white and black mothers (1–3,22).

Since 1989 information on forceps deliveries has been available from live birth certificates. In 1992, 4.3 percent of births were delivered by forceps, 7 percent lower than the 1991 rate of 4.6 percent and 22 percent lower than the 1989 rate of 5.5 percent. Thus the decline in use of forceps during the 1980's (57), which was concomitant with the rise in cesarean delivery, continues unabated despite the slight decline in cesarean delivery since 1989.

Vacuum-extraction delivery increased steadily in the 1980's (57,58), and information available from live birth certificates since 1989 indicates that this trend has continued. In 1989, 3.5 percent of births were by vacuum extraction, rising to 4.8 percent in 1992, an increase of 37 percent.

In 1992, as in previous years, both forceps and vacuum-extraction delivery were far more common for white than for black births. Forceps were used in 4.6 percent of white compared with 3.0 percent of black births, and vacuum extraction was used in 5.2 percent of white compared with 3.0 percent of black births. Both modes of delivery increased sharply with added birthweight up to 4,000 grams, and then declined slightly for babies weighing 4,000 grams or more, reflecting the increased use of cesarean delivery for babies of high birthweight (tabular data not shown).

Infant health characteristics

Gestation

The proportion of infants born preterm (less than 37 completed weeks of gestation) declined very slightly between 1991 and 1992, from 10.8 to 10.7 percent. Except for a decline in 1984, this proportion had risen steadily since 1981 (9.4 percent) (tables 42 and 43). Although the etiology of preterm delivery is largely unknown, it is a leading cause of new-

born and infant mortality (59). The proportion of births born at term (37–41 weeks of gestation) increased from 75 to 79 percent between 1981 and 1992, concurrent with a decline in postterm births, which fell by almost 40 percent during this period (16 to 10 percent). This decrease is likely due, at least in part, to the rapid rise in inductions of labor (57).

All of the small improvement in the incidence of preterm births occurred among preterm births to black mothers, which declined from 18.9 to 18.4 percent. Decreases were noted among black births of 28-36 weeks of gestation, but there was no change in the proportion of births at the greatest risk of poor outcome, those born under 28 weeks of gestation. Declines of 2-4 percent were observed for preterm births to black mothers in each age group except the youngest mothers and those 35 years of age and older. Among black mothers, the risk of preterm birth was lowest for mothers aged 20-29 years (17.5 percent) and highest for mothers under 15 years (26.9 percent).

The incidence of preterm births for white mothers was unchanged, at 9.1 percent. The risk of an early birth varied widely by age of mother, with rates ranging from 8.1 percent for mothers 25–29 years to 18.4 percent for mothers under 15 years of age. White teenage mothers 15–19 years were as likely as mothers 40 years and older to have a preterm birth (11.6 percent).

Black mothers were twice as likely as white mothers not to have a full-term pregnancy (18.4 compared with 9.1 percent). However, as preterm severity rises so, too, does the racial disparity. Black mothers were 70 percent more likely than white mothers to deliver at 34–36 weeks of gestation (11.2 compared with 6.6 percent), 2.5 times as likely to deliver at 28–33 weeks (5.3 compared with 2.1 percent), and four times as likely to deliver at less than 28 weeks (1.9 compared with 0.5 percent).

The shorter the length of gestation, the greater the risk of an adverse outcome as measured by low birthweight. Of extremely preterm infants, or those born at less than 28 weeks of gestation, 95 percent were low birthweight compared with 64 percent of infants born at 28–33 weeks and 28 percent of infants with gestations

of 34–36 weeks. Babies delivered at 34–36 weeks of gestation have been found to have little increased risk of morbidity or mortality when compared with term births (59).

Rates of preterm birth among other racial groups ranged from 7.0 percent for Chinese to 11.6 percent for American Indian mothers (table 23). The comparatively high proportion of preterm births among American Indians would seem to belie their overall favorable levels of low birthweight. However, a lower proportion of American Indian preterm infants (31 percent) were low birthweight than any of the other racial groups (for example, 40 percent of white preterm births and 47 percent of black preterm births).

Among Hispanic mothers, the proportion of births born preterm was the highest for Puerto Rican mothers (13.2 percent) and the lowest for Cuban mothers (10.0 percent) (table 24). The incidence of preterm birth was surprisingly high among Mexican mothers, at 10.4 percent, compared with white non-Hispanic mothers (8.7 percent), given the comparable levels of low birthweight of the two groups. However, as was the case for American Indian births, a relatively low proportion of Mexican preterm births were low birthweight (32 percent compared with 41 percent of white non-Hispanic preterm births) and, thus, were at less risk of poor outcome.

Weight at birth

The overall incidence of low birthweight (less than 2,500 grams) for 1992 was unchanged from the 1991 level of 7.1 percent, the highest level reported since 1978 (see tables 42-44 and figure 5). Low birthweight is a principal predictor of infant survival and potential morbidity (60,61). Following a high of 13.6 percent for 1991, the proportion low birthweight among black infants declined to 13.3 percent for 1992. No change was noted in the rate for white infants (5.8 percent). The incidence of very low birthweight (births of less than 1,500 grams) also was unchanged from 1991 (1.3 percent). The large racial disparity in very low birthweight was unabated as levels of very low birthweight among

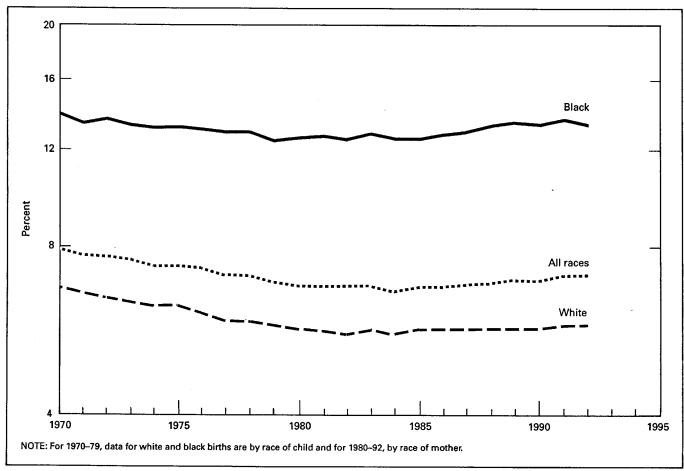


Figure 5. Percent low birthweight by race: United States, 1970-92

white (1.0 percent) and black births (3.0 percent) remained the same as in 1991.

The median birthweight for babies born in 1992 was 3,360 grams. The overall level was unchanged from 1991, the lowest median reported since 1981 (also 3,360). The median birthweight for white infants, at 3,410 grams, was also the same as the previous year. After a decline to 3,160 in 1991, the median birthweight for black babies returned to the level reported for 1990 (3,170).

There was essentially no change in patterns of low birthweight by age between 1991 and 1992. As in earlier years, the risk of low birthweight varied profoundly according to the age of the mother. Age-specific low-birthweight rates generally followed a U-shaped pattern, with the youngest and oldest mothers at the greatest risk, but with levels for mothers 40 years and older slightly lower than those for mothers under 20 years. Age-specific low-birthweight rates for births to white mothers followed a similar pattern, varying

widely from 10.2 percent for the youngest and oldest mothers to 5.1 percent for mothers aged 25–29 years. Conversely, there was less variation in low birthweight risk between age groups for black mothers, with only a 33-percent difference between the highest and lowest rates (16.2 compared with 12.2 percent).

Some reasons for the higher rate of low birthweight among black infants are that they are much more likely to be born preterm (at less than 37 completed weeks of gestation) and to have a lower weight gain during pregnancy. However, even for mothers with ideal weight gain and length of gestation, the risk of low birthweight for black infants is twice that for white infants (table 20).

There were no notable changes in low-birthweight levels for preterm (41.6 percent), term (37–41 weeks of gestation) (3.0 percent), or postterm births (42 weeks and over of gestation) (2.0 percent) from the previous year. As in prior years, the racial disparity in

low birthweight was greater for term than for preterm births. Whereas, low birthweight among preterm black births (47.0 percent) was 18 percent higher than that for white births (39.7 percent), black babies born at term (5.8 percent) were more than twice as likely to be born low birthweight as white term births (2.5 percent).

Infants born to American Indian mothers have a relatively favorable level of low birthweight (6.2 percent), despite high levels of teenage childbearing and numerous other demographic and medical risk factors (see medical risk factors section). This is due, in part, to the comparatively modest levels of low birthweight among American Indian teenagers—the lowest of any other racial or ethnic group in 1992 (6.2 percent).

Among Asian or Pacific Islander births, low birthweight levels ranged from a low of 5.0 percent for Chinese births, the lowest level reported for any racial or ethnic group, to 7.4 percent for Filipino births. The only notable change from the previous year was a rise in low birthweight among Japanese births, from 5.9 to 7.0 percent. The disparity in levels of low birthweight reflects the breadth of heterogeneity among Asian and Pacific Islanders.

Infants of Asian or Pacific Islander mothers born abroad were at a lower risk of low birthweight than those of their U.S.-born counterparts (6.2 percent compared with 7.3 percent). This pattern has been found for each of the Asian or Pacific Islander groups and may be attributed, in part, to lower levels of tobacco use during pregnancy (table 23).

Among all Hispanic mothers, the incidence of low birthweight in 1992 was unchanged from 1991 (6.1 percent). Rates of low birthweight for the Hispanic subgroups (except Cuban) were essentially unchanged, ranging from 5.6 percent for infants born to Mexican mothers to 9.2 percent for Puerto Rican infants (table 24). For Cuban babies low birthweight increased from 5.6 to 6.1 percent between 1991 and 1992.

The very favorable pregnancy outcome, as measured by low birthweight, for Mexican women is an anomaly. The prevalence of traditional risk factors, including elevated rates of teenage childbearing, low educational levels, and inadequate prenatal care, would appear to place Mexican infants at great peril. Some possible explanations are that low levels of tobacco and alcohol use and adequate nutrition during pregnancy among pregnant Mexican women may offset sociodemographic risks. Interestingly, the rate of low birthweight for Mexican mothers born outside of the United States (5.1 percent) is substantially lower than that of their U.S.-born counterparts (6.5 percent). This suggests that the protective practices of Mexican mothers born abroad, which contribute to their good birth outcomes, may not be sustained in the second generation of Mexican mothers. (14,62).

Among the 51 reporting areas, the rate of low birthweight for births to white mothers ranged from 4.3 percent for Alaska and 4.6 percent for the District of Columbia, to 7.3 percent for New Mexico and 8.0 percent for Colorado. For States with at least 1,000 black births, the lowest rates were reported for Rhode

Island (9.3 percent) and Massachusetts (10.9 percent); the highest rates were reported in Colorado (16.9 percent) and the District of Columbia (16.4 percent) (table 16).

Interval since last live birth

Closely-spaced births are associated with higher levels of low birthweight and other adverse outcomes (63). For 1992, 13 percent of all second- and higherorder births occurred within the relatively short interval of 18 months from a previous live birth (tables 10 and 11); 9.1 percent of these births were low birthweight compared with 4.6 percent of infants born at 2 to 3 years of a previous live birth. The proportion of births occurring at the various intervals following the mother's last live birth has remained essentially stable since 1980. For 1992 about a quarter (27 percent) occurred within 2 years and about one-half (51 percent) within 3 years.

Black infants are more likely than white infants to be born at short intervals, reflecting the higher fertility and younger ages at the start of childbearing of black mothers. For 1992, 20 percent of black infants, compared with 12 percent of white, followed their mother's previous live birth by less than 18 months. When born at these shorter intervals, black infants are also more likely to be low birthweight than white infants (16.6 percent compared with 6.5 percent).

Apgar score

The Apgar score was developed by Virginia Apgar, M.D., in 1952 to measure the relative physical condition of babies just after delivery. There are five components to this score—heart rate, respiratory effort, muscle tone, reflex irritability, and the color of the newborn-which are each assigned a value of 0, 1, or 2. The total score is the sum of the scores of the five components and ranges from 0 to 10, with 7 or greater indicating good to excellent physical condition. The scores are assessed at two separate intervals, 1 minute after birth and then again at 5 minutes after birth. The 1- and 5-minute scores are inherently different because the latter reflects any care the baby received in the first 5 minutes. The Apgar scores are used as predictors of the babies'

chances of survival and of their long-term health with the 5-minute score generally regarded as the better of the two measures on which to do this. In 1992 all States except California and Texas reported information on Apgar score. These 48 States and the District of Columbia accounted for 77 percent of all U.S. births.

In 1992, 8.5 percent of babies had 1-minute Apgar scores that were considered low, less than 7 (table 23). Of these, 16 percent also had low 5-minute scores (tabular data not shown). Thus, 84 percent of babies with low 1-minute scores improved enough in the next 4 minutes to have 5-minute scores of 7 or higher. However, the percent that improved varied substantially by the severity of their initial physical condition, ranging from only 13 percent of babies with 1-minute scores of 0 to nearly all (98 percent) of babies with 1-minute scores of 6. Conversely, the physical conditions of less than 0.1 percent of babies that had good 1-minute scores deteriorated to the point where they had 5-minute scores less than 7. Altogether, 1.5 percent of babies had 5-minute Apgar scores that were less than 7.

The percent of babies having low 1and 5-minute Apgar scores was highest for black mothers, intermediate for American Indian and white mothers, and lowest for Asian or Pacific Islander mothers. This is consistent with the fact that most Asian subgroups have fewer risk factors indicating adverse birth outcomes (for example, teenage births, tobacco and alcohol consumption during pregnancy, and inadequate weight gain) than other racial groups. The two Asian subgroups with the smallest percent of babies with low 1- and 5-minute Apgar scores were Chinese and Japanese mothers.

The findings regarding Apgar scores and Hispanic origin are similar to those for low birthweight (less than 2,500 grams); Hispanic infants tend to have good birth outcomes despite the economic and educational disadvantages of their mothers. Table 24 shows that the percent of Apgar scores less than 7 was lower for births to Hispanic mothers than for births to non-Hispanic mothers. Births to Cuban mothers had the lowest percent of babies with 1- and 5-minute Apgar

scores less than 7 of any Hispanic subgroup.

Abnormal conditions of the newborn

The abnormal conditions of the newborn with the highest rates per 1,000 live births in 1992 were assisted ventilation less than 30 minutes, 15 per 1,000; assisted ventilation 30 minutes or longer, 8 per 1,000; and hyaline membrane disease/respiratory distress syndrome (RDS), 6 per 1,000 (table 45).

Data for 1989–92 suggest substantial underreporting on the birth certificate for fetal alcohol syndrome (FAS). Of over 15.2 million live births in 1989-92, there were only 2,112 reported cases of FAS, a rate of 0.14 cases per 1,000 live births. The Centers for Disease Control and Prevention's Birth Defects Monitoring Program has estimated rates for FAS more than twice that derived from the birth certificate (64). FAS can be difficult to recognize because of the subtlety of facial malformations, the difficulty in detecting some types of central nervous system deficits, and because some of these infants are of normal birthweight (64). The identification of FAS often occurs after the birth certificate has been filed. Some physicians who suspect FAS do not make the diagnosis (65) because of the stigma associated with it. The related annual costs for FAS have been estimated to be \$250 million, of which nearly 60 percent is attributable to mental retardation (66).

The rates for abnormal conditions in 1992, as in the previous 3 years, were higher for black births than for white births for all conditions except assisted ventilation less than 30 minutes and birth injuries. The highest rates by age for anemia, hyaline membrane disease/RDS, and assisted ventilation (both less than 30 minutes and 30 minutes or longer) were for the youngest mothers (under 20 years of age).

The highest rates of meconium aspiration syndrome (MAS), which is associated with increased neonatal morbidity and mortality (67), were for the oldest mothers (40–49 years of age). Of the 9,757 reported cases of MAS, 63 percent also had meconium moderate/heavy reported as a complication of labor and/or

delivery (tabular data not shown). There is some debate about whether the pathology of MAS is more closely related to perinatal asphyxia than to meconium itself (68,69).

Only one abnormal condition, birth injury, had a lower rate among lowbirthweight infants (less than 2,500 grams) compared with infants weighing 2,500 grams or more. The rate of hyaline membrane disease/RDS was far higher for low-birthweight infants than for those of higher weight (55 compared with 3 per 1,000 live births). There was a similar large difference in rates by birthweight for assisted ventilation 30 minutes or longer (64 and 4 per 1.000 live births). The rates of hyaline membrane disease/RDS and assisted ventilation 30 minutes of longer also were far higher for preterm births (less than 37 completed weeks gestation) than for births with longer gestation (tabular data not shown).

Assisted ventilation less than 30 minutes was the only condition with noticeable differences by education of mother (tabular data not shown here). Mothers with 0-8 years of education had a rate of 9.3 per 1,000 live births compared with 15.5 for mothers with more education. The lower level for mothers with 0-8 years of education is explained in part by the high proportion who were Hispanic (64 percent) and that the rate of this condition for these Hispanic mothers was 6.0 per 1,000. For non-Hispanic white and non-Hispanic black mothers with 0-8 years of education, the rates were 17.9 and 14.6 per 1.000. respectively.

Congenital anomalies

Congenital anomalies are the leading cause of infant mortality in the United States and are also a major contributor to childhood morbidity, long-term disability, and years of potential life lost (70). Since 1989, information for some of the most severe and common congenital anomalies has been available from a checkbox item on live birth certificates. The checkbox format replaced a previously open-ended question to improve completeness and uniformity of reporting. However, even this format does not ensure that all cases of anomalies will be reported. A recent study on the quality of reporting of

congenital anomalies on the new birth certificate found that there is still substantial underreporting of some anomalies (71). In 1992 the District of Columbia and all States except New Mexico and New York included a question on congenital anomalies on their birth certificate. These areas included 92 percent of the births in the United States.

Because many of the congenital anomalies tracked on birth certificates occur relatively infrequently, congenital anomaly rates in this report are calculated per 100,000 live births. Small yearly changes in rates should be interpreted with caution; the number of births with a specific anomaly for any one year may be relatively small, and reporting practices in some areas vary from year to year. The terms "congenital anomalies" and "birth defects" are used interchangeably in this discussion.

For many of the anomalies reported on birth certificates, rates vary widely according to maternal age (table 46). For anencephalus, spina bifida/meningocele, hydrocephalus, microcephalus, omphalocele/gastroschisis, and "Other" gastrointestinal anomalies, rates are generally highest for teenagers and decline somewhat for births to older mothers. This pattern is consistent with the decrease in incidence of these anomalies with added educational attainment (data not shown).

More commonly, however, rates of congenital anomalies tend to increase for older mothers. Notable examples are Down's syndrome and "Other" chromosomal anomalies. The rate of Down's syndrome for teenagers is 28.9, but nearly doubles to 56.0 for women 30–34 years, and is 12 times as high for women aged 40–49 years (343.0) as for teenagers. For "Other" chromosomal anomalies rates are 3.5 to 4 times as high for women aged 40–49 years as for women less than 35 years of age.

Anencephalus and spina bifida/meningocele are two of a class of neural tube defects (NTD's) reported on birth certificates. NTD's are among the most frequently occurring birth defects that result in infant mortality and serious disability (72). In 1992 the rate of anencephalus was 13.2 per 100,000 live births, and the rate of spina bifida/meningocele, 22.8 per 100,000 live births (table 46), but these rates are probably an underestimation of

the true occurrence (73). As noted earlier, rates for these NTD's decline with added educational attainment. Other studies have shown that women of lower socioeconomic status are at increased risk of having children with NTD's and that nutritional factors might explain this link (74). The U.S. Food and Drug Administration has proposed that bread and grain products be fortified with folic acid to help women of childbearing age ingest sufficient folic acid for preventing NTD's (75).

Although the rate of infant mortality due to birth defects is slightly higher for black than for white births (70), congenital anomaly rates for live births are higher for black than for white births for only 4 of the 20 anomalies identified on birth certificates (microcephalus, omphalocele/gastroschisis, "Other" gastrointesanomalies, and polydactyly/ syndactyly/adactyly). The racial differential is particularly noticeable for polydactyly/syndactyly/adactyly. For this group of anomalies the rate for black births was nearly four times as high as the rate for white births (217.3 compared with 58.8).

Multiple births

There were 99,255 babies born in plural deliveries in 1992, a 1-percent increase over the 98,125 reported for 1991. (See table 47 for 1992 data.) The number of live births in twin deliveries was essentially unchanged, at 95,372 compared with 94,779 for 1991, but the number of live births in higher-order multiple deliveries (triplets, quadruplets, and quintuplets) rose sharply, from 3,346 to 3,883 births, an increase of 16 percent. Increases were reported for live births in triplet (3,130 to 3,555), quadruplet (203 to 310) and quintuplet deliveries (22 to 26) from the previous year. The elevated frequency of plural births for 1992 is attributable to the rise of these births among mothers 30 years of age and older.

Modest increases of 2 percent were noted in the multiple birth ratio (23.9 to 24.4 multiple births per 1,000 live births) and twin birth ratio (23.1 to 23.5 twin births per 1,000 live births) over 1991, continuing the steady upward trend evident since 1972. (Because most multiple births are twins, the multiple birth ratio

largely reflects the twinning ratio.) The higher-order multiple birth ratio, however, which relates the number of triplet and other higher-order multiple births per 100,000 live births, surpassed that of 1991 by 17 percent, rising from 81.4 to 95.5, the largest single-year increase in at least 20 years. This ratio has risen dramatically since 1972, climbing from 27.8 to 40.3 in 1982 and more than doubling over the latest 10-year period.

The multiple birth ratio increased between 1991 and 1992 for white mothers from 23.4 to 24.0 and for black mothers from 27.8 to 28.2. Although the black twin ratio remained higher than the white twin ratio in 1992 (27.6 compared with 23.0), the white higher-order multiple birth ratio (107.6) was twice as high as the black ratio (53.6). During the 1970's this ratio was actually higher for black than for white mothers, but by the early 1980's rates for white mothers began to exceed those for black mothers. The escalation in higher-order birth ratios has been associated with the increased use of fertility-enhancing drugs, especially among white mothers, and a shift toward older childbearing (76). A recent study has found that prescriptions for the drug most commonly prescribed for infertility had increased nearly twofold between 1973 and 1991, and that these drugs were most commonly prescribed for white females (77). Most of the increase among black women has been attributed to the upward shift in maternal age (76).

Mother and child are both at increased risk during a multiple pregnancy. Maternal risk is manifested in elevated rates of medical risk factors during pregnancy, such as anemia, hypertension, and eclampsia when compared with mothers of singletons. Mothers of multiple births also are much more likely to have a breech or other malpresentation and to deliver by cesarean section (78).

The risk to the infant in a multiple birth is evidenced by the very high rates of low birthweight (less than 2,500 grams) and preterm delivery (less than 37 completed weeks gestation) and the heightened risk of infant mortality and morbidity (79). The majority of multiple births are low birthweight or very low birthweight (less than 1,500 grams), and the magnitude of risk increases as the

number of births in the delivery rises. For 1992, 51 percent of all twins and 91 percent of all triplets and higher-order plural births were low birthweight compared with 6 percent of single births. The risk of being born at very low birthweight was 10 times as high for twin births as for single births (10 percent compared with 1 percent). Almost one of every three triplets, or other higher-order births, were very low birthweight (data not included in this report). The lower birthweight is due, in part, to the shorter gestational period of plural births (one-half of all plural births were preterm); but at each gestational period, plural births are more likely to be low birthweight (80).

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Symbols

- - Data not available
- ... Category not applicable
- Quantity zero
- 0.0 Quantity more than zero but less than 0.05
- Figure does not meet standards of reliability or precision (see Technical notes)

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| | | | 1 | | | 1 | | | 1 | 1 | | | 1 | | | | | | | 1 | | $\overline{}$ |
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Includes American Indian and Asian or Pacific Islander.
 Non-Hispanic origin only.
 Includes American Indian, Chinese, Japanese, Hawaiian, Filipino and other Asian or Pacific Islander.

Table 1. Live births, birth rates, and fertility rates, by race: United States, specified years 1940-55 and each year, 1960-92

[Birth rates are live births per 1,000 population in specified group. Fertility rates per 1,000 women aged 15-44 years in specified group. Population enumerated as of April 1 for census years and estimated as of July 1 for all other years. Beginning with 1970, excludes births to nonresidents of the United States]

| | | | Number | | | | | Birth | rate | | Fertility rate | | | | | | |
|---------------------------------------|-------------|-----------|---------|---------------------------------|---------------------------------|-------------|-------|-------|---------------------------------|---------------------------------|----------------|-------|-------|---------------------------------|---------------------------------|--|--|
| Year | All races 1 | White | Black | American Indian ² | Asian or Pacific Islander | All races 1 | White | Black | American Indian ² | Asian or Pacific Islander | All races 1 | White | Black | American Indian ² | Asian oi Pacific Islandei | | |
| Registered births | | | | | | | | | | | | | | | | | |
| Race of mother: | | | | | | | | | | | | | | | | | |
| 1992 | 4,065,014 | 3,201,678 | 673,633 | 39,453 | 150,250 | 15.9 | 15.0 | 21.3 | 18.4 | 18.0 | 68.9 | 66.5 | 83.2 | 75.4 | 67.2 | | |
| 1991 | 4,110,907 | 3,241,273 | 682,602 | 38,841 | 145,372 | 16.3 | 15.4 | 21.9 | 18.3 | 18.2 | 69.6 | 67.0 | 85.2 | 75.1 | 67.6 | | |
| 1990 | 4,158,212 | 3,290,273 | 684,336 | 39,051 | 141,635 | 16.7 | 15.8 | 22.4 | 18.9 | 19.0 | 70.9 | 68.3 | 86.8 | 76.2 | 69.6 | | |
| 1989 | 4,040,958 | 3,192,355 | 673,124 | 39,478 | 133,075 | 16.4 | 15.4 | 22.3 | 19.7 | 18.7 | 69.2 | 66.4 | 86.2 | 79.0 | 68.2 | | |
| 1988 | 3,909,510 | 3,102,083 | 638,562 | 37,088 | 129,035 | 16.0 | 15.0 | 21.5 | 19.3 | 19.2 | 67.3 | 64.5 | 82.6 | 76.8 | 70.2 | | |
| 1987 | 3,809,394 | 3,043,828 | 611,173 | 35,322 | 116,560 | 15.7 | 14.9 | 20.8 | 19.1 | 18.4 | 65.8 | 63.3 | 80.1 | 75.6 | 67.1 | | |
| 1986 | 3,756,547 | 3,019,175 | 592,910 | 34,169 | 107,797 | 15.6 | 14.8 | 20.5 | 19.2 | 18.0 | 65.4 | 63.1 | 78.9 | 75.9 | 66.0 | | |
| 1985 | 3,760,561 | 3,037,913 | 581,824 | 34,037 | 104,606 | 15.8 | 15.0 | 20.4 | 19.8 | 18.7 | 66.3 | 64.1 | 78.8 | 78.6 | 68.4 | | |
| 1984 ³ | 3,669,141 | 2,967,100 | 568,138 | 33,256 | 98,926 | 15.6 | 14.8 | 20.1 | 20.1 | 18.8 | 65.5 | 63.2 | 78.2 | 79.8 | 69.2 | | |
| 1983 ³ | 3,638,933 | 2,946,468 | 562,624 | 32,881 | 95,713 | 15.6 | 14.8 | 20.2 | 20.6 | 19.5 | 65.7 | 63.4 | 78.7 | 81.8 | 71.7 | | |
| 1982 ³ | 3,680,537 | 2,984,817 | 568,506 | 32,436 | 93,193 | 15.9 | 15.1 | 20.7 | 21.1 | 20.3 | 67.3 | 64.8 | 80.9 | 83.6 | 74.8 | | |
| 1981 ³ | | 2,947,679 | 564,955 | 29,688 | 84,553 | 15.8 | 15.0 | 20.8 | 20.0 | 20.1 | 67.3 | 64.8 | 82.0 | 79.6 | 73.7 | | |
| 1980 ³ | 3,612,258 | 2,936,351 | 568,080 | 29,389 | 74,355 | 15.9 | 15.1 | 21.3 | 20.7 | 19.9 | 68.4 | 65.6 | 84.7 | 82.7 | 73.2 | | |
| Race of child: | | | | | | | | | | | | | | | | | |
| 1980 ³ | 3,612,258 | 2,898,732 | 589,616 | 36,797 | | 15.9 | 14.9 | 22.1 | | | 68.4 | 64.7 | 88.1 | | | | |
| 1979 ³ | 3,494,398 | 2,808,420 | 577,855 | 34,269 | | 15.6 | 14.5 | 22.0 | | | 67.2 | 63.4 | 88.3 | | | | |
| 1978 ³ | 3,333,279 | 2,681,116 | 551,540 | 33,160 | | 15.0 | 14.0 | 21.3 | | | 65.5 | 61.7 | 86.7 | | | | |
| 1977 ³ | 3,326,632 | 2,691,070 | 544,221 | 30,500 | | 15.1 | 14.1 | 21.4 | | | 66.8 | 63.2 | 88.1 | | | | |
| 1976 ³ | 3,167,788 | 2,567,614 | 514,479 | 29,009 | | 14.6 | 13.6 | 20.5 | | | 65.0 | 61.5 | 85.8 | | | | |
| 1975 ³ | 3,144,198 | 2,551,996 | 511,581 | 27,546 | | 14.6 | 13.6 | 20.7 | | | 66.0 | 62.5 | 87.9 | | | | |
| 1974 ³ | 3,159,958 | 2,575,792 | 507,162 | 26,631 | | 14.8 | 13.9 | 20.8 | | | 67.8 | 64.2 | 89.7 | | | | |
| 1973 ³ | 3,136,965 | 2,551,030 | 512,597 | 26,464 | | 14.8 | 13.8 | 21.4 | | | 68.8 | 64.9 | 93.6 | | | | |
| 1972 ³ | 3,258,411 | 2,655,558 | 531,329 | 27,368 | | 15.6 | 14.5 | 22.5 | | | 73.1 | 68.9 | 99.9 | | | | |
| 1971 ⁴ | 3,555,970 | 2,919,746 | 564,960 | 27,148 | | 17.2 | 16.1 | 24.4 | | | 81.6 | 77.3 | 109.7 | | | | |
| 1970 ⁴ | 3,731,386 | 3,091,264 | 572,362 | 25,864 | | 18.4 | 17.4 | 25.3 | | | 87.9 | 84.1 | 115.4 | | | | |
| 1969 ⁴ | 3,600,206 | 2,993,614 | 543,132 | 24,008 | | 17.9 | 16.9 | 24.4 | | | 86.1 | 82.2 | 112.1 | | | | |
| 1968 ⁴ | 3,501,564 | 2,912,224 | 531,152 | 24,156 | | 17.6 | 16.6 | 24.2 | | | 85.2 | 81.3 | 112.7 | | | | |
| 1967 ⁵ | 3,520,959 | 2,922,502 | 543,976 | 22,665 | | 17.8 | 16.8 | 25.1 | | | 87.2 | 82.8 | 118.5 | | | | |
| 1966 ⁴ | 3,606,274 | 2,993,230 | 558,244 | 23,014 | | 18.4 | 17.4 | 26.2 | | | 90.8 | 86.2 | 124.7 | | | | |
| 1965 ⁴ | 3,760,358 | 3,123,860 | 581,126 | 24,066 | | 19.4 | 18.3 | 27.7 | | | 96.3 | 91.3 | 133.2 | | | | |
| 1964 ⁴ | 4,027,490 | 3,369,160 | 607,556 | 24,382 | | 21.1 | 20.0 | 29.5 | | | 104.7 | 99.8 | 142.6 | | | | |
| 1963 ^{4,6} | 4,098,020 | 3,326,344 | 580,658 | 22,358 | | 21.7 | 20.7 | | | | 108.3 | 103.6 | | | | | |
| 1962 ^{4,6} | 4,167,362 | 3,394,068 | 584,610 | 21,968 | | 22.4 | 21.4 | | | | 112.0 | 107.5 | | | | | |
| 1961 ⁴ | 4,268,326 | 3,600,864 | 611,072 | 21,464 | | 23.3 | 22.2 | | | | 117.1 | 112.3 | | | | | |
| 1960 ⁴ | 4,257,850 | 3,600,744 | 602,264 | 21,114 | | 23.7 | 22.7 | 31.9 | | | 118.0 | 113.2 | 153.5 | | | | |
| Births adjusted for underregistration | | | | | | | | | | | | | | | | | |
| Race of child: | | | | | | | | | | | | | | | | | |
| 1955 | 4 097 000 | 3,485,000 | | | | 25.0 | 23.8 | | | | 118.3 | 113.7 | | | | | |
| 1950 | | | | | | 24.1 | 23.0 | | | | 106.2 | 102.3 | | | | | |
| 1945 | | | | | | 20.4 | 19.7 | | | | 85.9 | 83.4 | | | | | |
| 1940 | | | | | | 19.4 | 18.6 | | | | 79.9 | 77.1 | | | | | |
| 1340 | 2,008,000 | ۵,۱۶۵,000 | | | | 13.4 | 10.0 | | | | 1 3.3 | 11.1 | | | | | |

¹For 1960–91 includes births to races not shown separately; see Technical notes.

²Includes births to Aleuts and Eskimos.

³Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

⁴Based on a 50-percent sample of births.

⁵Based on a 20- to 50-percent sample of births.

⁶Figures by race exclude data for New Jersey.

Table 2. Live births by age of mother, live-birth order, and race of mother: United States, 1992

[Live-birth order refers to number of children born alive to mother]

| | | Age of mother | | | | | | | | | | | | |
|-------------------------------------|--------------------|-------------------|-----------------|-------------|-------------|--------------|--------------|----------------|-------------------|-------------------|-------------------|------------------|----------------|----------------|
| | | | | | 15–1 | 9 years | | | | | | | | |
| Live-birth order and race of mother | All ages | Under 15 years | Total | 15 years | 16 years | 17 years | 18 years | 19 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–44 years | 45–49 years |
| All races | 4,065,014 | 12,220 | 505,415 | 29,267 | 60,136 | 98,146 | 138,663 | 179,203 | 1,070,490 | 1,179,264 | 895,271 | 344,644 | 55,702 | 2,008 |
| First child | 1,632,448 | 11,702 | 375,145 | 27,087 | 52,443 | 78,650 | 100,312 | 116,653 | 496,541 | 428,590 | 236,102 | 73,284 | 10,746 | 338 |
| Second child | 1,311,397 | 79 | 101,658 | 1,924 | 6,743 | 16,371 | 30,410 | 46,210 | 356,332 | 412,901 | 318,736 | 107,012 | 14,040 | 317 |
| Third child | 665,150 | 31 | 22,162 | 102 | 624 | 2,407 | 6,333 | 12,696 | 147,649 | 208,936 | 195,374 | 79,527 | 11,148 | 323 |
| Fourth child Fifth child | 260,751 | 7 | 3,799 508 | 8 6 | 45 7 | 264 27 | 953 95 | 2,529 373 | 47,120 | 78,866 28.073 | 82,260 | 41,099 | 7,349 | 251 212 |
| Sixth child | 98,448 41,066 | _ | 508 | - | 2 | 2 | 12 | 43 | 13,604 3,582 | 10,441 | 32,147 14,340 | 19,565 9,916 | 4,339 2,603 | 125 |
| Seventh child | 18,512 | _ | 11 | _ | _ | _ | 4 | 7 | 900 | 3,906 | 6,510 | 5,344 | 1,735 | 106 |
| Eighth child and over | 18,787 | _ | 6 | _ | _ | _ | 2 | 4 | 340 | 2,269 | 5,458 | 6,994 | 3,404 | 316 |
| Not stated | 18,455 | 79 | 2,067 | 140 | 272 | 425 | 542 | 688 | 4,422 | 5,282 | 4,344 | 1,903 | 338 | 20 |
| White | 3,201,678 | 5,367 | 342,739 | 15,966 | 37,256 | 65,564 | 95,949 | 128,004 | 814,422 | 964,586 | 745,510 | 282,617 | 44,866 | 1,571 |
| First child | 1,307,908 | 5,165 | 267,038 | 15,154 | 33,711 | 55,317 | 73,945 | 88,911 | 400,407 | 363,040 | 200,704 | 62,236 | 9,031 | 287 |
| Second child | 1,056,557 | 153 | 62,426 | 699 | 3,144 | 8,980 | 18,586 | 31,017 | 275,205 | 346,310 | 271,201 | 89,342 | 11,658 | 262 |
| Third child | 517,417 190,948 | 15 5 | 10,475 1,339 | 34 | 221 16 | 930 70 | 2,748 297 | 6,542 956 | 100,937 26,954 | 167,205 57,830 | 163,851 65,717 | 65,653 33,069 | 9,019 5,834 | 262 200 |
| Fifth child | 66,236 | _ | 150 | 3 | 10 | 7 | 29 | 110 | 6,150 | 17,858 | 23,655 | 14,965 | 3,288 | 170 |
| Sixth child | 26,190 | _ | 20 | _ | 2 | 1 | 4 | 13 | 1,313 | 5,690 | 9,868 | 7,259 | 1,957 | 83 |
| Seventh child | 11,356 | _ | 3 | _ | _ | _ | 1 | 2 | 275 | 1,795 | 4,117 | 3,798 | 1,297 | 71 |
| Eighth child and over | 11,535 | _ | 5 | - | _ | - | 2 | 3 | 147 | 883 | 2,985 | 4,785 | 2,510 | 220 |
| Not stated | 13,531 | 29 | 1,283 | 76 | 161 | 259 | 337 | 450 | 3,034 | 3,975 | 3,412 | 1,510 | 272 | 16 |
| Black | 673,633 | 6,448 | 146,800 | 12,432 | 20,970 | 29,600 | 38,362 | 45,436 | 216,057 | 157,960 | 100,339 | 39,389 | 6,453 | 187 |
| First child | 246,250 | 6,157 | 96,530 | 11,133 | 17,073 | 21,002 | 23,269 | 24,053 | 76,803 | 40,467 | 19,487 | 5,919 | 866 | 21 |
| Second child | 196,016 | 227 | 36,033 | 1,167 | 3,398 | 6,855 | 10,872 | 13,741 | 69,387 | 49,382 | 29,615 | 10,045 | 1,297 | 30 |
| Third child | 120,452 58,038 | 14 1 | 10,878 2,271 | 63 6 | 367 23 | 1,391 184 | 3,355 600 | 5,702 1,458 | 41,344 18,028 | 34,395 17,521 | 23,398 13,225 | 9,082 5,941 | 1,307 1,026 | 34 25 |
| Fifth child | 26,459 | _ | 328 | 3 | 6 | 18 | 64 | 237 | 6,608 | 8,470 | 6,786 | 3,501 | 747 | 19 |
| Sixth child | 11,860 | _ | 37 | _ | _ | 1 | 7 | 29 | 1,973 | 3,882 | 3,517 | 2,008 | 425 | 18 |
| Seventh child | 5,483 | _ | 8 | _ | _ | _ | 3 | 5 | 545 | 1,707 | 1,802 | 1,127 | 284 | 10 |
| Eighth child and over | 5,086 | _ | 1 | _ | _ | _ | _ | 1 | 168 | 1,122 | 1,821 | 1,487 | 460 | 27 |
| Not stated | 3,989 | 49 | 714 | 60 | 103 | 149 | 192 | 210 | 1,201 | 1,014 | 688 | 279 | 41 | 3 |
| American Indian ¹ | 39,453 | 169 | 7,708 | 455 | 1,004 | 1,545 | 2,106 | 2,598 | 12,959 | 9,825 | 5,928 | 2,406 | 447 | 11 |
| First child | 12,834 | 161 | 5,516 | 428 | 885 | 1,204 | 1,460 | 1,539 | 4,354 | 1,798 | 772 | 202 | 28 | 3 |
| Second child | 10,404 | 6 | 1,683 | 24 | 99 | 294 | 516 | 750 | 4,330 | 2,711 | 1,231 | 392 | 47 | 4 |
| Third child | 7,215 4,274 | 1 | 398 62 | 1 | 15 2 | 35 1 | 105 15 | 242 44 | 2,612 1,082 | 2,324 1,567 | 1,327 1,065 | 489 422 | 65 74 | 1 |
| Fifth child | 2,327 | _ | 10 | _ | _ | _ | - | 10 | 382 | 799 | 713 | 351 | 71 | 1 |
| Sixth child | 1,163 | _ | _ | _ | _ | _ | _ | _ | 107 | 375 | 402 | 223 | 56 | _ |
| Seventh child | 535 | _ | _ | _ | _ | _ | _ | _ | 23 | 145 | 210 | 129 | 28 | _ |
| Eighth child and over | 516 | _ | _ | _ | _ | _ | _ | _ | 13 | 62 | 179 | 185 | 75 | 2 |
| Not stated | 185 | 1 | 39 | 2 | 3 | 11 | 10 | 13 | 56 | 44 | 29 | 13 | 3 | - |
| Asian or Pacific Islander | 150,250 | 236 | 8,168 | 414 | 906 | 1,437 | 2,246 | 3,165 | 27,052 | 46,893 | 43,494 | 20,232 | 3,936 | 239 |
| | | | | | | | | | | | | | | |
| First child | 65,456 48,420 | 219 15 | 6,061 1,516 | 372 34 | 774 102 | 1,127 242 | 1,638 436 | 2,150 702 | 14,977 7,410 | 23,285 14,498 | 15,139 | 4,927 7,233 | 821 1,038 | 27 21 |
| Third child | 20,066 | 2 | 411 | 34 4 | 21 | 51 | 125 | 210 | 2,756 | 5,012 | 16,689 6,798 | 4,303 | 757 | 27 |
| Fourth child | 7,491 | _ | 127 | 2 | 4 | 9 | 41 | 71 | 1,056 | 1,948 | 2,253 | 1,667 | 415 | 25 |
| Fifth child | 3,426 | _ | 20 | _ | _ | 2 | 2 | 16 | 464 | 946 | 993 | 748 | 233 | 22 |
| Sixth child | 1,853 | - | 2 | _ | _ | _ | 1 | 1 | 189 | 494 | 553 | 426 | 165 | 24 |
| Seventh child | 1,138 | - | _ | _ | _ | _ | _ | _ | 57 | 259 | 381 | 290 | 126 | 25 |
| Eighth child and over | 1,650 | - | - | _ | _ | _ | _ | - | 12 | 202 | 473 | 537 | 359 | 67 |
| Not stated | 750 | _ | 31 | 2 | 5 | 6 | 3 | 15 | 131 | 249 | 215 | 101 | 22 | 1 |

¹Includes births to Aleuts and Eskimos.

Table 3. Birth rates by age of mother, live-birth order, and race of mother: United States, 1992

[Rates are live births per 1,000 women in specified age and racial group. Live-birth order refers to number of children born alive to mother]

Age of mother 15-19 years Live-birth order and 18-19 15-44 10 - 1415-17 20-24 25-29 30 - 3435 - 3940 - 4445 - 49race of mother vears 1 vears Total years years years years years years vears years 60.7 94.5 117.4 32.5 All races............. 68.9 1.4 37.8 114.6 80.2 5.9 0.3 First child 27.8 45.3 32.0 64.7 53.4 42.8 21.2 6.9 0.0 1.3 1.1 22.3 0.0 12.3 5.1 22.9 38.3 41.3 28.7 10.1 1.5 0.0 11.3 0.0 2.7 0.6 5.7 15.9 20.9 17.6 7.5 1.2 0.0 Fourth child...... 44 0.5 0.1 1.0 5.1 7.9 7.4 3.9 0.8 0.0 17 0.1 0.0 0.1 1.5 28 29 19 0.5 0.0 Sixth and seventh child 1.0 0.0 0.0 0.5 1.4 1.9 1.4 0.5 0.0 Eighth child and over 0.3 0.0 0.2 0.5 0.7 0.4 0.0 8.0 30.1 83.8 108.2 118.4 32.2 0.2 66.5 51.8 81.4 5.7 First child 27.3 0.7 40.5 26.5 61.1 53.4 44.7 22.0 7.1 1.1 0.0 22.0 0.0 9.5 3.3 18.6 36.7 42.7 29.7 10.2 1.5 0.0 10.8 1.6 0.3 3.5 13.5 20.6 18.0 7.5 1.1 0.0 Fourth child...... 4.0 0.2 0.0 0.5 3.6 7.1 7.2 3.8 0.7 0.0 1.4 0.0 0.1 0.8 2.2 2.6 0.4 1.7 0.0 Sixth and seventh child 8.0 0.0 0.0 0.2 0.9 1.5 1.3 0.4 0.0 Eighth child and over 0.2 0.0 0.1 0.3 0.5 0.3 0.0 Black..... 83.2 47 112 4 813 157 9 158.0 111 2 67.5 288 56 0.2 First child 30.6 4.5 74.3 63.8 89.6 56.5 28.7 13.2 4.4 0.8 0.0 Second child 24.3 0.2 27.7 14.8 46.6 51.0 35.0 20.1 7.4 1.1 0.0 15.0 8.4 2.4 17.1 30.4 24.4 15.8 6.7 1.1 0.0 Fourth child...... 7.2 1.7 0.3 3.9 13.3 12.4 9.0 4.4 0.9 0.0 0.6 4.6 2.6 0.7 3.3 0.3 0.0 4.9 6.0 Sixth and seventh child 2.2 0.0 0.1 1.9 4.0 3.6 2.3 0.6 0.0 Eighth child and over 0.6 0.1 0.8 1.2 1.1 0.4 0.0 American Indian² 75.4 1.6 84.4 53.8 132.6 145.5 109.4 63.0 28.0 6.1 First child 24.6 1.5 60.7 45.3 85.0 20.1 8.2 2.4 0.4 49.1 35.9 30.3 20.0 18.5 7.5 48.8 13.1 4.6 0.6 13.8 4.4 0.9 9.8 29.5 26.0 14.2 5.7 0.9 Fourth child...... 8.2 0.7 1.7 12.2 17.5 11 4 49 1.0 4.5 4.3 8.9 7.6 4.1 1.0 Sixth and seventh child 3.3 1.5 5.8 6.5 4.1 1.2 Eighth child and over 1.0 0.7 1.9 2.2 1.0 Asian or Pacific Islander 0.7 26.6 43.1 121.0 103.0 50.6 11.0 0.9 67.2 15.2 74.6 First child 29.4 0.7 19.8 12.6 30.2 41.5 60.4 36.0 12.4 2.3 0.1 Second child 21.8 4.9 2.1 9.1 20.5 37.6 39.7 18.2 2.9 0.1 9.0 1.3 0.4 2.7 7.6 13.0 16.2 10.8 2.1 0.1 3.4 0.4 0.9 2.9 5.1 5.4 4.2 1.2 0.1 1.5 0.1 1.3 25 24 19 0.7 0.1 Sixth and seventh child 1.3 0.7 2.0 2.2 1.8 0.8 0.2 Eighth child and over 0.7 1.0 0.3

¹Rates computed by relating total births, regardless of age of mother, to women aged 15–44 years. ²Includes births to Aleuts and Eskimos.

Table 4. Total fertility rates and birth rates by age of mother and race: United States, 1970-92

[Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5. Birth rates are live births per 1,000 women in specified group enumerated as of April 1 for 1970, 1980, and 1990, and estimated as of July 1 for all other years]

| | | | | | | Age o | f mother | | | | |
|------------------------------|----------------------------|----------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | | 15–19 year | rs | | | | | | |
| Year and race | Total fertility rate | 10–14 years | Total | 15–17 years | 18–19 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–44 years | 45–49 years |
| All races ¹ | | | | | | | | | | | |
| 1992 | 2,065.0 | 1.4 | 60.7 | 37.8 | 94.5 | 114.6 | 117.4 | 80.2 | 32.5 | 5.9 | 0.3 |
| 1991 | 2,073.0 | 1.4 | 62.1 | 38.7 | 94.4 | 115.7 | 118.2 | 79.5 | 32.0 | 5.5 | 0.2 |
| 1990 | 2,081.0 | 1.4 | 59.9 | 37.5 | 88.6 | 116.5 | 120.2 | 80.8 | 31.7 | 5.5 | 0.2 |
| 1989 | 2,014.0 | 1.4 | 57.3 | 36.4 | 84.2 | 113.8 | 117.6 | 77.4 | 29.9 | 5.2 | 0.2 |
| 1988 | 1,934.0 | 1.3 | 53.0 | 33.6 | 79.9 | 110.2 | 114.4 | 74.8 | 28.1 | 4.8 | 0.2 |
| 1987 | 1,872.0 | 1.3 | 50.6 | 31.7 | 78.5 | 107.9 | 111.6 | 72.1 | 26.3 | 4.4 | 0.2 |
| 1986 | 1,837.5 | 1.3 | 50.2 | 30.5 | 79.6 | 107.4 | 109.8 | 70.1 | 24.4 | 4.1 | 0.2 |
| 1985 | 1,844.0 | 1.2 | 51.0 | 31.0 | 79.6 | 108.3 | 111.0 | 69.1 | 24.0 | 4.0 | 0.2 |
| 1984 ² | 1,806.5 | 1.2 | 50.6 | 31.0 | 77.4 | 106.8 | 108.7 | 67.0 | 22.9 | 3.9 | 0.2 |
| 1983 ² | 1,799.0 | 1.1 | 51.4 | 31.8 | 77.4 | 107.8 | 108.5 | 64.9 | 22.0 | 3.9 | 0.2 |
| 1982 ² | 1,827.5 | 1.1 | 52.4 | 32.3 | 79.4 | 111.6 | 111.0 | 64.1 | 21.2 | 3.9 | 0.2 |
| 1981 ² | 1,812.0 | 1.1 | 52.2 | 32.0 | 80.0 | 112.2 | 111.5 | 61.4 | 20.0 | 3.8 | 0.2 |
| 1980 ² | 1,839.5 | 1.1 | 53.0 | 32.5 | 82.1 | 115.1 | 112.9 | 61.9 | 19.8 | 3.9 | 0.2 |
| 1979 ² | 1,808.0 | 1.2 | 52.3 | 32.3 | 81.3 | 112.8 | 111.4 | 60.3 | 19.5 | 3.9 | 0.2 |
| 1978 ² | 1,760.0 | 1.2 | 51.5 | 32.2 | 79.8 | 109.9 | 108.5 | 57.8 | 19.0 | 3.9 | 0.2 |
| 1977 ² | 1,789.5 | 1.2 | 52.8 | 33.9 | 80.9 | 112.9 | 111.0 | 56.4 | 19.2 | 4.2 | 0.2 |
| 1976 ² | 1,738.0 | 1.2 | 52.8 | 34.1 | 80.5 | 110.3 | 106.2 | 53.6 | 19.0 | 4.3 | 0.2 |
| 1975 ² | 1,774.0 | 1.3 | 55.6 | 36.1 | 85.0 | 113.0 | 108.2 | 52.3 | 19.5 | 4.6 | 0.3 |
| 1974 ² | 1,835.0 | 1.2 | 57.5 | 37.3 | 88.7 | 117.7 | 111.5 | 53.8 | 20.2 | 4.8 | 0.3 |
| 1973 ² | 1,879.0 | 1.2 | 59.3 | 38.5 | 91.2 | 119.7 | 112.2 | 55.6 | 22.1 | 5.4 | 0.3 |
| 1972 ² | 2,010.0 | 1.2 | 61.7 | 39.0 | 96.9 | 130.2 | 117.7 | 59.8 | 24.8 | 6.2 | 0.4 |
| 1971 3 | 2,266.5 | 1.1 | 64.5 | 38.2 | 105.3 | 150.1 | 134.1 | 67.3 | 28.7 | 7.1 | 0.4 |
| 1970 ³ | 2,480.0 | 1.2 | 68.3 | 38.8 | 114.7 | 167.8 | 145.1 | 73.3 | 31.7 | 8.1 | 0.5 |
| White | | | | | | | | | | | |
| Race of mother: | 4 000 5 | 0.0 | 54.0 | 20.4 | 00.0 | 400.0 | 440.4 | 04.4 | 00.0 | <i>-</i> | 0.0 |
| 1992 | 1,993.5 | 0.8 | 51.8 | 30.1 | 83.8 | 108.2 | 118.4 | 81.4 | 32.2 | 5.7 | 0.2 |
| 1991 | 1,995.5 | 0.8 | 52.8 | 30.7 | 83.5 | 109.0 | 118.8 | 80.5 | 31.8 | 5.2 | 0.2 |
| 1990 | 2,003.0 | 0.7 | 50.8 | 29.5 | 78.0 | 109.8 | 120.7 | 81.7 | 31.5 | 5.2 | 0.2 |
| 1989 | 1,931.0 | 0.7 | 47.9 | 28.1 | 72.9 | 106.9 | 117.8 | 78.1 | 29.7 | 4.9 | 0.2 |
| 1988 | 1,856.5 | 0.6 | 44.4 | 26.0 | 69.6 | 103.7 | 114.8 | 75.4 | 27.7 | 4.5 | 0.2 |
| 1987 | 1,804.5 | 0.6 | 42.5 | 24.6 | 68.9 | 102.3 | 112.3 | 73.0 | 25.9 | 4.1 | 0.2 |
| 1986 | 1,776.0 | 0.6 | 42.3 | 23.8 | 70.1 | 102.7 | 110.8 | 70.9 | 23.9 | 3.8 | 0.2 |
| 1985 | 1,787.0 | 0.6 | 43.3 | 24.4 | 70.4 | 104.1 | 112.3 | 69.9 | 23.3 | 3.7 | 0.2 |
| 1984 ² | 1,748.5 | 0.6 | 42.9 | 24.3 | 68.4 | 102.7 | 109.8 | 67.7 | 22.2 | 3.6 | 0.2 |
| 1983 ² | 1,740.5 | 0.6 | 43.9 | 25.0 | 68.8 | 103.8 | 109.4 | 65.3 | 21.3 | 3.6 | 0.2 |
| 1982 ² | 1,767.0 | 0.6 | 45.0 | 25.5 | 70.8 | 107.7 | 111.9 | 64.0 | 20.4 | 3.6 | 0.2 |
| 1981 ² | 1,748.0 | 0.5 | 44.9 | 25.4 | 71.5 | 108.3 | 112.3 | 61.0 | 19.0 | 3.4 | 0.2 |
| 1980 ² | 1,773.0 | 0.6 | 45.4 | 25.5 | 73.2 | 111.1 | 113.8 | 61.2 | 18.8 | 3.5 | 0.2 |
| Race of child: | | | | | | | | | | | |
| 1980 ² | 1,748.5 | 0.6 | 44.7 | 25.2 | 72.1 | 109.5 | 112.4 | 60.4 | 18.5 | 3.4 | 0.2 |
| 1979 ² | 1,715.5 | 0.6 | 43.7 | 24.7 | 71.0 | 107.0 | 110.8 | 59.0 | 18.3 | 3.5 | 0.2 |
| 1978 ² | 1,667.5 | 0.6 | 42.9 | 24.9 | 69.4 | 104.1 | 107.9 | 56.6 | 17.7 | 3.5 | 0.2 |
| 1977 ² | 1,703.0 | 0.6 | 44.1 | 26.1 | 70.5 | 107.7 | 110.9 | 55.3 | 18.0 | 3.8 | 0.2 |
| 1976 ² | 1,652.0 | 0.6 | 44.1 | 26.3 | 70.2 | 105.3 | 105.9 | 52.6 | 17.8 | 3.9 | 0.2 |
| 1975 ² | 1,686.0 | 0.6 | 46.4 | 28.0 | 74.0 | 108.2 | 108.1 | 51.3 | 18.2 | 4.2 | 0.2 |
| 1974 ² | 1,748.5 | 0.6 | 47.9 | 28.7 | 77.3 | 113.0 | 111.8 | 52.9 | 18.9 | 4.4 | 0.2 |
| 1973 ² | 1,783.0 | 0.6 | 49.0 | 29.2 | 79.3 | 114.4 | 112.3 | 54.4 | 20.7 | 4.9 | 0.3 |
| 1972 ² | 1,906.5 | 0.5 | 51.0 | 29.3 | 84.3 | 124.8 | 117.4 | 58.4 | 23.3 | 5.6 | 0.3 |
| 1971 3 | 2,160.5 | 0.5 | 53.6 | 28.5 | 92.3 | 144.9 | 134.0 | 65.4 | 26.9 | 6.4 | 0.4 |
| 1970 ³ | 2,385.0 | 0.5 | 57.4 | 29.2 | 101.5 | 163.4 | 145.9 | 71.9 | 30.0 | 7.5 | 0.4 |
| See feathers at and of table | , | | | | | | | | | | *** |

See footnotes at end of table.

Table 4. Total fertility rates and birth rates by age of mother and race: United States, 1970–92—Con.

[Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5. Birth rates are live births per 1,000 women in specified group enumerated as of April 1 for 1970, 1980, and 1990, and estimated as of July 1 for all other years]

| | | | | | | Age o | f mother | | | | |
|------------------------------|----------------------------|----------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | T | | | 15–19 year | s | | | | | | |
| Year and race | Total fertility rate | 10–14 years | Total | 15–17 years | 18–19 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–44 years | 45–49 years |
| Black | | | | | | | | | | | |
| Race of mother: | | | | | | | | | | | |
| 1992 | 2,442.0 | 4.7 | 112.4 | 81.3 | 157.9 | 158.0 | 111.2 | 67.5 | 28.8 | 5.6 | 0.2 |
| 1991 | 2,480.0 | 4.8 | 115.5 | 84.1 | 158.6 | 160.9 | 113.1 | 67.7 | 28.3 | 5.5 | 0.2 |
| 1990 | 2,480.0 | 4.9 | 112.8 | 82.3 | 152.9 | 160.2 | 115.5 | 68.7 | 28.1 | 5.5 | 0.3 |
| 1989 | 2,432.5 | 5.1 | 111.5 | 81.9 | 151.9 | 156.8 | 114.4 | 66.3 | 26.7 | 5.4 | 0.3 |
| 1988 | 2,298.0 | 4.9 | 102.7 | 75.7 | 142.7 | 149.7 | 108.2 | 63.1 | 25.6 | 5.1 | 0.3 |
| 1987 | 2,198.0 | 4.8 | 97.6 | 72.1 | 135.8 | 142.7 | 104.3 | 60.6 | 24.6 | 4.8 | 0.2 |
| 1986 | 2,135.5 | 4.7 | 95.8 | 69.3 | 135.1 | 137.3 | 101.1 | 59.3 | 23.8 | 4.8 | 0.3 |
| 1985 | 2,109.0 | 4.5 | 95.4 | 69.3 | 132.4 | 135.0 | 100.2 | 57.9 | 23.9 | 4.6 | 0.3 |
| 1984 ² | 2,070.5 | 4.4 | 94.1 | 69.2 | 128.1 | 132.2 | 98.4 | 56.7 | 23.3 | 4.8 | 0.2 |
| 1983 ² | 2,066.0 | 4.1 | 93.9 | 69.6 | 127.1 | 131.9 | 98.4 | 56.2 | 23.3 | 5.1 | 0.3 |
| 1982 ² | 2,106.5 | 4.0 | 94.3 | 69.7 | 128.9 | 135.4 | 101.3 | 57.5 | 23.3 | 5.1 | 0.3 |
| 1981 ² | 2,100.5 | 4.0 | 94.5 | 69.3 | 131.0 | 136.5 | 101.3 | 57.5 57.4 | 23.1 | 5.4 | 0.4 |
| 1980 ² | 2,117.5 | 4.0 | 94.3 97.8 | 72.5 | 135.1 | 140.0 | 102.3 | 59.9 | 23.5 | 5.6 | 0.3 |
| Race of child: | | | | | | | | | | | |
| 1980 ² | 2,266.0 | 4.3 | 100.0 | 73.6 | 138.8 | 146.3 | 109.1 | 62.9 | 24.5 | 5.8 | 0.3 |
| 1979 ² | 2,263.2 | 4.6 | 100.0 | 75.7 | 140.4 | 146.3 | 108.2 | 60.7 | 24.7 | 6.1 | 0.3 |
| 1978 ² | 2,203.2 | 4.4 | 100.9 | | 139.7 | | 105.2 | 58.3 | 24.7 | 6.1 | 0.4 |
| 1977 ² | 2,210.0 | 4.4 4.7 | 100.9 | 75.0 79.6 | 142.9 | 143.8 144.4 | 105.4 | 56.5 57.5 | 24.3 25.4 | 6.6 | 0.4 |
| 1976 ² | , | | 104.7 | 80.3 | 142.5 | | 100.4 | 53.6 | 24.8 | 6.8 | 0.5 |
| 1975 ² | 2,187.0 | 4.7 | | | | 140.5 | | | | | |
| | 2,243.0 | 5.1 | 111.8 | 85.6 | 152.4 | 142.8 | 102.2 | 53.1 | 25.6 | 7.5 | 0.5 |
| 1974 ² | 2,298.5 | 5.0 | 116.5 | 90.0 | 158.7 | 146.7 | 102.2 | 54.1 | 27.0 | 7.6 | 0.6 |
| 1973 ² | 2,411.0 | 5.4 | 123.1 | 96.0 | 166.6 | 153.1 | 103.9 | 58.1 | 29.4 | 8.6 | 0.6 |
| 1972 ² | 2,601.0 | 5.1 | 129.8 | 99.5 | 179.5 | 165.0 | 112.4 | 64.0 | 33.4 | 9.8 | 0.7 |
| 1971 3 | 2,902.0 | 5.1 | 134.5 | 99.4 | 192.6 | 186.6 | 128.0 | 74.8 | 38.9 | 11.6 | 0.9 |
| 1970 ³ | 3,099.5 | 5.2 | 140.7 | 101.4 | 204.9 | 202.7 | 136.3 | 79.6 | 41.9 | 12.5 | 1.0 |
| American Indian ⁴ | | | | | | | | | | | |
| Race of mother: | | | | | | | | | | | |
| 1992 | 2,190.0 | 1.6 | 84.4 | 53.8 | 132.6 | 145.5 | 109.4 | 63.0 | 28.0 | 6.1 | * |
| 1991 | 2,169.0 | 1.6 | 85.0 | 52.7 | 134.3 | 144.9 | 106.9 | 61.9 | 27.2 | 5.9 | 0.4 |
| 1990 | 2,183.0 | 1.6 | 81.1 | 48.5 | 129.3 | 148.7 | 110.3 | 61.5 | 27.5 | 5.9 | * |
| 1989 | 2,247.0 | 1.5 | 82.7 | 51.6 | 128.9 | 152.4 | 114.2 | 64.8 | 27.4 | 6.4 | * |
| 1988 | 2,153.5 | 1.7 | 77.5 | 49.7 | 121.1 | 145.2 | 110.9 | 64.5 | 25.6 | 5.3 | * |
| 1987 | 2,099.0 | 1.7 | 77.2 | 48.8 | 122.2 | 140.0 | 107.9 | 63.0 | 24.4 | 5.6 | * |
| 1986 | 2,082.0 | 1.8 | 78.1 | 48.7 | 125.3 | 138.8 | 107.9 | 60.7 | 23.8 | 5.3 | * |
| 1985 | 2,128.0 | 1.7 | 79.2 | 47.7 | 124.1 | 139.1 | 109.6 | 62.6 | 27.4 | 6.0 | * |
| 1984 ² | 2,136.0 | 1.7 | 81.5 | 50.7 | 124.7 | 142.4 | 109.2 | 60.5 | 26.3 | 5.6 | * |
| 1983 ² | 2,180.5 | 1.9 | 84.2 | 55.2 | 121.4 | 145.5 | 113.7 | 58.9 | 25.5 | 6.4 | * |
| 1982 ² | 2,213.0 | 1.4 | 83.5 | 52.6 | 127.6 | 148.1 | 115.8 | 60.9 | 26.9 | 6.0 | * |
| 1981 ² | 2,090.0 | 2.1 | 78.4 | 49.7 | 121.5 | 141.2 | 105.6 | 58.9 | 25.2 | 6.6 | * |
| 1980 ² | 2,162.5 | 1.9 | 82.2 | 51.5 | 129.5 | 143.7 | 106.6 | 61.8 | 28.1 | 8.2 | |

See footnotes at end of table.

Table 4. Total fertility rates and birth rates by age of mother and race: United States, 1970-92—Con.

[Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5. Birth rates are live births per 1,000 women in specified group enumerated as of April 1 for 1970, 1980, and 1990, and estimated as of July 1 for all other years]

| | | | | | | Age of | f mother | | | | |
|---------------------------|----------------------------|----------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | | 15–19 year | s | | | | | | |
| Year and race | Total fertility rate | 10–14 years | Total | 15–17 years | 18–19 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–44 years | 45–49 years |
| Asian or Pacific Islander | | | | | | | | | | | |
| Race of mother: | | | | | | | | | | | |
| 1992 | 1,942.0 | 0.7 | 26.6 | 15.2 | 43.1 | 74.6 | 121.0 | 103.0 | 50.6 | 11.0 | 0.9 |
| 1991 | 1,956.0 | 0.8 | 27.4 | 16.1 | 43.1 | 75.2 | 123.2 | 103.3 | 49.0 | 11.2 | 0.8 |
| 1990 | 2,002.5 | 0.7 | 26.4 | 16.0 | 40.2 | 79.2 | 126.3 | 106.5 | 49.6 | 10.7 | 1.1 |
| 1989 | 1,947.5 | 0.6 | 25.6 | 15.0 | 40.4 | 78.8 | 124.0 | 102.3 | 47.0 | 10.2 | 1.0 |
| 1988 | 1,983.5 | 0.6 | 24.2 | 13.6 | 39.6 | 80.7 | 128.0 | 104.4 | 47.5 | 10.3 | 1.0 |
| 1987 | 1,886.0 | 0.6 | 22.4 | 12.6 | 37.0 | 79.7 | 122.7 | 97.0 | 44.2 | 9.5 | 1.1 |
| 1986 | 1,836.0 | 0.5 | 22.8 | 12.1 | 38.8 | 79.2 | 119.9 | 92.6 | 41.9 | 9.3 | 1.0 |
| 1985 | 1,885.0 | 0.4 | 23.8 | 12.5 | 40.8 | 83.6 | 123.0 | 93.6 | 42.7 | 8.7 | 1.2 |
| 1984 ² | 1,892.0 | 0.5 | 24.2 | 12.6 | 40.7 | 86.7 | 124.3 | 92.4 | 40.6 | 8.7 | 1.0 |
| 1983 ² | 1,943.5 | 0.5 | 26.1 | 12.9 | 44.5 | 94.0 | 126.2 | 93.3 | 39.4 | 8.2 | 1.0 |
| 1982 ² | 2,015.5 | 0.4 | 29.4 | 14.0 | 50.8 | 98.9 | 130.9 | 94.4 | 39.2 | 8.8 | 1.1 |
| 1981 ² | 1,976.0 | 0.3 | 28.5 | 13.4 | 49.5 | 96.4 | 129.1 | 93.4 | 38.0 | 8.6 | 0.9 |
| 1980 ² | 1,953.5 | 0.3 | 26.2 | 12.0 | 46.2 | 93.3 | 127.4 | 96.0 | 38.3 | 8.5 | 0.7 |

¹For 1970–91 includes births to races not shown separately; see Technical notes.

²Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

³Based on a 50-percent sample of births.

⁴Includes births to Aleuts and Eskimos.

Table 5. Birth rates by live-birth order and race of mother: United States, 1980-92

[Rates are live births per 1,000 women aged 15–44 years, enumerated as of April 1 for 1980 and 1990, and estimated as of July 1 for all other years. Live-birth order refers to number of children born alive to mother. Figures for live-birth order not stated are distributed]

| | | | | | Live-birth | order | | |
|-------------------------|-------|------|------|------|------------|-------|---------|-----------|
| Year and race of mother | Total | 1 | 2 | 3 | 4 | 5 | 6 and 7 | 8 and ove |
| All races ¹ | | | | | | | | |
| 1992 | 68.9 | 27.8 | 22.3 | 11.3 | 4.4 | 1.7 | 1.0 | 0.3 |
| 1991 | 69.6 | 28.3 | 22.4 | 11.4 | 4.5 | 1.7 | 1.0 | 0.3 |
| 1990 | 70.9 | 29.0 | 22.8 | 11.7 | 4.5 | 1.7 | 1.0 | 0.3 |
| 1989 | 69.2 | 28.4 | 22.4 | 11.3 | 4.3 | 1.6 | 0.9 | 0.3 |
| 1988 | 67.3 | 27.6 | 22.0 | 10.9 | 4.1 | 1.5 | 0.9 | 0.3 |
| 1987 | 65.8 | 27.2 | 21.6 | 10.5 | 3.9 | 1.4 | 0.8 | 0.3 |
| 1986 | 65.4 | 27.2 | 21.6 | 10.3 | 3.8 | 1.4 | 0.8 | 0.3 |
| 985 | 66.3 | 27.6 | 22.0 | 10.4 | 3.8 | 1.4 | 0.8 | 0.3 |
| 984 ² | 65.5 | 27.4 | 21.7 | 10.1 | 3.7 | 1.4 | 0.9 | 0.3 |
| 983 ² | 65.7 | 27.8 | 21.5 | 10.1 | 3.7 | 1.4 | 0.9 | 0.3 |
| 982 ² | 67.3 | 28.6 | 22.0 | 10.2 | 3.8 | 1.4 | 0.9 | 0.3 |
| 1981 ² | 67.3 | 29.0 | 21.6 | 10.1 | 3.8 | 1.5 | 0.9 | 0.4 |
| 1980 ² | 68.4 | 29.5 | 21.8 | 10.3 | 3.9 | 1.5 | 1.0 | 0.4 |
| White | | | | | | | | |
| 992 | 66.5 | 27.3 | 22.0 | 10.8 | 4.0 | 1.4 | 0.8 | 0.2 |
| 991 | 67.0 | 27.8 | 22.0 | 10.8 | 4.0 | 1.4 | 0.8 | 0.2 |
| 990 | 68.3 | 28.4 | 22.4 | 11.1 | 4.0 | 1.4 | 0.8 | 0.2 |
| 989 | 66.4 | 27.6 | 21.9 | 10.7 | 3.8 | 1.3 | 0.7 | 0.2 |
| 988 | 64.5 | 26.8 | 21.6 | 10.4 | 3.6 | 1.2 | 0.7 | 0.2 |
| 987 | 63.3 | 26.5 | 21.3 | 10.0 | 3.5 | 1.2 | 0.7 | 0.2 |
| 986 | 63.1 | 26.6 | 21.3 | 9.8 | 3.4 | 1.2 | 0.7 | 0.2 |
| 985 | 64.1 | 27.0 | 21.8 | 9.9 | 3.4 | 1.2 | 0.7 | 0.2 |
| 984 ² | 63.2 | 26.8 | 21.4 | 9.6 | 3.3 | 1.2 | 0.7 | 0.2 |
| 983 ² | 63.4 | 27.2 | 21.2 | 9.5 | 3.3 | 1.2 | 0.7 | 0.2 |
| 982 ² | 64.8 | 28.0 | 21.6 | 9.6 | 3.4 | 1.2 | 0.7 | 0.3 |
| 981 2 | 64.8 | 28.4 | 21.1 | 9.5 | 3.4 | 1.2 | 0.8 | 0.3 |
| 980 ² | 65.6 | 28.8 | 21.3 | 9.6 | 3.4 | 1.3 | 0.8 | 0.3 |
| Black | | | | | | | | |
| 992 | 83.2 | 30.6 | 24.3 | 15.0 | 7.2 | 3.3 | 2.2 | 0.6 |
| 991 | 85.2 | 31.5 | 25.0 | 15.4 | 7.4 | 3.3 | 2.1 | 0.6 |
| 990 | 86.8 | 32.4 | 25.6 | 15.6 | 7.4 | 3.2 | 2.0 | 0.6 |
| 989 | 86.2 | 32.9 | 25.4 | 15.3 | 7.1 | 3.0 | 1.9 | 0.6 |
| 988 | 82.6 | 31.8 | 24.6 | 14.4 | 6.6 | 2.8 | 1.8 | 0.5 |
| 987 | 80.1 | 31.2 | 23.8 | 13.9 | 6.3 | 2.7 | 1.7 | 0.5 |
| 986 | 78.9 | 31.0 | 23.4 | 13.5 | 6.1 | 2.6 | 1.7 | 0.5 |
| 985 | 78.8 | 31.0 | 23.4 | 13.4 | 6.1 | 2.6 | 1.7 | 0.5 |
| 984 ² | 78.1 | 30.9 | 23.0 | 13.2 | 6.0 | 2.6 | 1.7 | 0.6 |
| 983 ² | 78.7 | 31.1 | 23.1 | 13.2 | 6.1 | 2.7 | 1.8 | 0.6 |
| 982 ² | 80.9 | 31.7 | 23.9 | 13.8 | 6.3 | 2.7 | 1.8 | 0.7 |
| 981 ² | 82.0 | 32.3 | 24.2 | 13.7 | 6.3 | 2.8 | 1.9 | 0.8 |
| 980 ² | 84.9 | 33.7 | 24.7 | 14.0 | 6.5 | 2.9 | 2.1 | 0.9 |

Includes races other than white and black.

Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

Table 6. Live births by age of mother, live-birth order, Hispanic origin of mother, and by race of mother for mothers of non-Hispanic origin: Total of 49 reporting States and the District of Columbia, 1992

[Live-birth order refers to number of children born alive to mother. Includes births with stated origin of mother only]

| | | | | | | | A | ge of mot | her | | | | | |
|---------------------------------------|-------------|-------------------|---------|-------------|-------------|-------------|-------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | | | 15–19 | years | | | | | | | | |
| Live-birth order and origin of mother | All ages | Under 15 years | Total | 15 years | 16 years | 17 years | 18 years | 19 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–44 years | 45–49 years |
| Hispanic | | | | | | | | | | | | | | |
| Total | 643,271 | 2,715 | 107,421 | 6,911 | 14,069 | 21,679 | 29,075 | 35,687 | 203,943 | 174,834 | 104,527 | 41,540 | 7,954 | 337 |
| First child | 241,894 | 2,604 | 78,899 | 6,417 | 12,140 | 17,228 | 20,594 | 22,520 | 88,785 | 46,980 | 18,392 | 5,380 | 823 | 31 |
| Second child | 186,606 | 88 | 22,721 | 444 | 1,698 | 3,826 | 6,894 | 9,859 | 69,507 | 56,626 | 27,872 | 8,546 | 1,214 | 32 |
| Third child | 114,547 | 8 | 4,542 | 22 | 133 | 496 | 1,279 | 2,612 | 30,977 | 40,382 | 27,282 | 9,819 | 1,500 | 37 |
| Fourth child | 54,735 | 3 | 696 | _ | 13 | 37 | 176 | 470 | 10,160 | 18,804 | 16,249 | 7,403 | 1,374 | 46 |
| Fifth child | 23,382 | _ | 84 | 1 | _ | 4 | 20 | 59 | 2,771 | 7,267 | 7,678 | 4,570 | 960 | 52 |
| Sixth child | 10,307 | _ | 9 | _ | 1 | 1 | 1 | 6 | 685 | 2,651 | 3,664 | 2,563 | 703 | 32 |
| Seventh child | 4,676 | _ | 4 | _ | _ | _ | 2 | 2 | 149 | 920 | 1,678 | 1,409 | 493 | 23 |
| Eighth child and over | 4,371 | _ | 1 | _ | _ | _ | 1 | _ | 68 | 444 | 1,263 | 1,658 | 855 | 82 |
| Not stated | 2,753 | 12 | 465 | 27 | 84 | 87 | 108 | 159 | 841 | 760 | 449 | 192 | 32 | 2 |
| Mexican | 432,047 | 1,828 | 75,956 | 4,757 | 9,735 | 15,255 | 20,645 | 25,564 | 143,074 | 114,876 | 65,190 | 25,843 | 5,049 | 231 |
| First child | 159,943 | 1,763 | 56,082 | 4,419 | 8,451 | 12,218 | 14,732 | 16,262 | 61,882 | 27,816 | 9,413 | 2,582 | 391 | 14 |
| Second child | 122,052 | 55 | 16,098 | 317 | 1,154 | 2,648 | 4,882 | 7,097 | 49,356 | 36,413 | 15,264 | 4,286 | 560 | 20 |
| Third child | 77,645 | 6 | 3,119 | 15 | 92 | 333 | 886 | 1,793 | 21,937 | 28,233 | 17,634 | 5,859 | 839 | 18 |
| Fourth child | 39,206 | 2 | 461 | _ | 9 | 23 | 102 | 327 | 7,091 | 13,842 | 11,764 | 5,116 | 898 | 32 |
| Fifth child | 17,435 | _ | 49 | 1 | _ | 3 | 8 | 37 | 1,931 | 5,440 | 5,837 | 3,444 | 697 | 37 |
| Sixth child | 7,869 | _ | 7 | _ | 1 | 1 | 1 | 4 | 465 | 1,962 | 2,850 | 2,013 | 549 | 23 |
| Seventh child | 3,641 | _ | 2 | _ | _ | _ | 1 | 1 | 99 | 681 | 1,328 | 1,136 | 378 | 17 |
| Eighth child and over | 3,519 | _ | _ | _ | _ | _ | _ | _ | 49 | 309 | 1,004 | 1,359 | 729 | 69 |
| Not stated | 737 | 2 | 138 | 5 | 28 | 29 | 33 | 43 | 264 | 180 | 96 | 48 | 8 | 1 |
| Puerto Rican | 59,569 | 403 | 12,350 | 946 | 1,793 | 2,578 | 3,257 | 3,776 | 19,856 | 15,045 | 8,261 | 3,062 | 567 | 25 |
| First child | 22,813 | 384 | 8,478 | 865 | 1,484 | 1,942 | 2,119 | 2,068 | 7,518 | 4,118 | 1,716 | 524 | 71 | 4 |
| Second child | 17,519 | 11 | 2,804 | 65 | 256 | 498 | 848 | 1,137 | 6,485 | 4,803 | 2,509 | 781 | 123 | 3 |
| Third child | 10,450 | 1 | 698 | 2 | 16 | 88 | 201 | 391 | 3,633 | 3,209 | 2,023 | 746 | 137 | 3 |
| Fourth child | 4,576 | 1 | 147 | _ | 1 | 10 | 40 | 96 | 1,323 | 1,524 | 1,026 | 458 | 95 | 2 |
| Fifth child | 1,866 | _ | 20 | _ | _ | 1 | 5 | 14 | 423 | 663 | 447 | 249 | 61 | 3 |
| Sixth child | 762 | _ | 2 | _ | _ | _ | _ | 2 | 110 | 283 | 221 | 113 | 28 | 5 |
| Seventh child | 325 | _ | 2 | _ | _ | _ | 1 | 1 | 31 | 110 | 99 | 62 | 21 | _ |
| Eighth child and over | 287 | _ | 1 | _ | _ | _ | 1 | _ | 8 | 69 | 93 | 88 | 24 | 4 |
| Not stated | 971 | 6 | 198 | 14 | 36 | 39 | 42 | 67 | 325 | 266 | 127 | 41 | 7 | 1 |
| Cuban | 11,472 | 22 | 797 | 44 | 88 | 135 | 222 | 308 | 2,106 | 4,113 | 3,149 | 1,087 | 195 | 3 |
| First child | 4,877 | 22 | 645 | 41 | 81 | 119 | 182 | 222 | 1,227 | 1,824 | 891 | 234 | 34 | _ |
| Second child | 4,061 | | 131 | 2 | 7 | 15 | 38 | 69 | 642 | 1,504 | 1,302 | 404 | 76 | 2 |
| Third child | 1,744 | _ | 20 | 1 | _ | 1 | 2 | 16 | 172 | 555 | 665 | 291 | 40 | 1 |
| Fourth child | 508 | _ | 1 | _ | _ | _ | _ | 1 | 46 | 155 | 184 | 102 | 20 | _ |
| Fifth child | 154 | _ | _ | _ | _ | _ | _ | _ | 11 | 39 | 62 | 32 | 10 | _ |
| Sixth child | 57 | _ | _ | _ | _ | _ | _ | _ | 2 | 14 | 23 | 11 | 7 | _ |
| Seventh child | 27 | _ | _ | _ | _ | _ | _ | _ | _ | 6 | 8 | 5 | 8 | _ |
| Eighth child and over | 13 | _ | _ | _ | _ | _ | _ | _ | _ | 2 | 6 | 5 | _ | _ |
| Not stated | 31 | _ | - | _ | _ | _ | _ | _ | 6 | 14 | 8 | 3 | _ | - |

See footnotes at end of table.

Table 6. Live births by age of mother, live-birth order, Hispanic origin of mother, and by race of mother for mothers of non-Hispanic origin: Total of 49 reporting States and the District of Columbia, 1992—Con.

[Live-birth order refers to number of children born alive to mother. Includes births with stated origin of mother only]

| | | | | | | | Α | ge of mot | her | | | | | |
|---------------------------------------|-------------|-------------------|----------------|-------------|--------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | | | 15–19 | years | | | | | | | | |
| Live-birth order and origin of mother | All ages | Under 15 years | Total | 15 years | 16 years | 17 years | 18 years | 19 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–44 years | 45–49 years |
| Central and South American | 89,031 | 199 | 8,342 | 463 | 973 | 1,610 | 2,275 | 3,021 | 22,866 | 27,848 | 19,667 | 8,452 | 1,593 | 64 |
| First child | 34,080 | 184 | 6,453 | 434 | 862 | 1,329 | 1,717 | 2,111 | 11,645 | 9,427 | 4,605 | 1,514 | 242 | 10 |
| Second child | 27,261 | 13 | 1,552 | 26 | 98 | 256 | 461 | 711 | 7,399 | 9,545 | 6,128 | 2,273 | 347 | 4 |
| Third child | 15,993 | 1 | 254 | 1 | 7 | 18 | 69 | 159 | 2,710 | 5,585 | 4,958 | 2,127 | 344 | 14 |
| Fourth child | 6,687 | _ | 30 | _ | _ | 1 | 12 | 17 | 764 | 2,063 | 2,269 | 1,275 | 277 | 9 |
| Fifth child | 2,557 | _ | 5 | _ | _ | _ | 2 | 3 | 151 | 715 | 926 | 604 | 144 | 12 |
| Sixth child | 1,030 | - | - | - | _ | - | - | - | 37 | 223 | 369 | 305 | 93 | 3 |
| Seventh child | 442 | - | - | - | _ | - | - | - | 5 | 68 | 160 | 146 | 58 | 5 |
| Eighth child and over | 350 | - | - | - | _ | - | - | - | 8 | 32 | 95 | 135 | 73 | 7 |
| Not stated | 631 | 1 | 48 | 2 | 6 | 6 | 14 | 20 | 147 | 190 | 157 | 73 | 15 | - |
| Other and unknown Hispanic | 51,152 | 263 | 9,976 | 701 | 1,480 | 2,101 | 2,676 | 3,018 | 16,041 | 12,952 | 8,260 | 3,096 | 550 | 14 |
| • | 20.181 | 251 | | 658 | | | | | | | 1,767 | 526 | 85 | |
| First child | 15,713 | 251 9 | 7,241 2,136 | 34 | 1,262 183 | 1,620 409 | 1,844 665 | 1,857 845 | 6,513 5,625 | 3,795 4,361 | 2,669 | 802 | 108 | 3 |
| Third child | 8,715 | 9 | 2,136 451 | 34 | 18 | 409 56 | 121 | 253 | 2,525 | 2,800 | 2,009 | 796 | 140 | ა 1 |
| Fourth child | 3,758 | _ | 57 | _ | 3 | 3 | 22 | 233 | 936 | 1,220 | 1,006 | 452 | 84 | 3 |
| Fifth child | 1,370 | _ | 10 | _ | _ | _ | 5 | 5 | 255 | 410 | 406 | 241 | 48 | _ |
| Sixth child | 589 | _ | - | _ | _ | _ | _ | _ | 71 | 169 | 201 | 121 | 26 | 1 |
| Seventh child | 241 | _ | _ | _ | _ | _ | _ | _ | 14 | 55 | 83 | 60 | 28 | 1 |
| Eighth child and over | 202 | _ | _ | _ | _ | _ | _ | _ | 3 | 32 | 65 | 71 | 29 | 2 |
| Not stated | 383 | 3 | 81 | 6 | 14 | 13 | 19 | 29 | 99 | 110 | 61 | 27 | 2 | _ |
| Non-Hispanic | | | | | | | | | | | | | | |
| Total ¹ | ,365,862 | 9,397 | 393,248 | 22,128 | 45,527 | 75,595 | 108,262 | 141,736 | 854,646 | 987,714 | 775,855 | 296,828 | 46,553 | 1,621 |
| First child | 368 298 | 9,012 | 292,709 | 20 465 | 39,843 | 60,715 | 78,737 | 92,949 | 402,193 | 374,984 | 213,213 | 66,268 | 9,622 | 297 |
| Second child | | 304 | 78,135 | 1,469 | 4,994 | 12,436 | 23,281 | 35,955 | 283,145 | 350,933 | 285,810 | 96,528 | | 275 |
| Third child | 542,423 | 23 | 17,454 | 80 | 489 | 1,893 | 5,011 | 9,981 | 115,190 | 166,084 | 165,392 | 68,531 | 9,468 | 281 |
| Fourth child | 202,832 | 4 | 3,079 | 8 | 32 | 227 | 770 | 2,042 | 36,517 | 59,120 | 64,924 | 33,153 | 5,832 | 203 |
| Fifth child | 73,868 | _ | 419 | 5 | 7 | 23 | 74 | 310 | 10,704 | 20,466 | 24,040 | 14,752 | 3,332 | 155 |
| Sixth child | 30,192 | _ | 49 | _ | 1 | 1 | 11 | 36 | 2,868 | 7,650 | 10,466 | 7,209 | 1,863 | 87 |
| Seventh child | 13,529 | _ | 7 | _ | _ | _ | 2 | 5 | 740 | 2,922 | 4,721 | 3,845 | 1,212 | 82 |
| Eighth child and over | 13,999 | _ | 5 | _ | _ | _ | 1 | 4 | 265 | 1,800 | 4,094 | 5,168 | 2,441 | 226 |
| Not stated | 13,046 | 54 | 1,391 | 101 | 161 | 300 | 375 | 454 | 3,024 | 3,755 | 3,195 | 1,374 | 238 | 15 |
| White 2 | ,527,207 | 2,689 | 234,338 | 9,086 | 23,211 | 43,771 | 66,535 | 91,735 | 605,526 | 779,761 | 630,853 | 236,747 | 36,090 | 1,203 |
| First child 1 | ,052,986 | 2,606 | 187,274 | 8,762 | 21,592 | 37,961 | 53,030 | 65,929 | 308,938 | 311,520 | 178,881 | 55,562 | 7,959 | 246 |
| Second child | 859,668 | 61 | 39,665 | 267 | 1,460 | 5,178 | 11,688 | 21,072 | 204,188 | 286,310 | 239,629 | 79,345 | 10,247 | 223 |
| Third child | 398,834 | 7 | 5,951 | 12 | 91 | 441 | 1,480 | 3,927 | 69,557 | 125,659 | 134,926 | 55,114 | 7,399 | 221 |
| Fourth child | 134,994 | 2 | 651 | _ | 3 | 34 | 124 | 490 | 16,738 | 38,717 | 48,968 | 25,385 | 4,379 | 154 |
| Fifth child | 42,509 | _ | 65 | 2 | 1 | 3 | 9 | 50 | 3,388 | 10,524 | 15,816 | 10,292 | 2,310 | 114 |
| Sixth child | 15,735 | _ | 11 | _ | 1 | - | 3 | 7 | 639 | 3,036 | 6,123 | 4,638 | 1,238 | 50 |
| Seventh child | 6,571 | _ | _ | _ | _ | - | _ | - | 130 | 871 | 2,387 | 2,344 | 791 | 48 |
| Eighth child and over | 6,946 | _ | 4 | _ | _ | - | 1 | 3 | 78 | 443 | 1,677 | 3,024 | 1,584 | 136 |
| Not stated | 8,964 | 13 | 717 | 43 | 63 | 154 | 200 | 257 | 1,870 | 2,681 | 2,446 | 1,043 | 183 | 11 |
| Black | 657,450 | 6,339 | 144,259 | 12,258 | 20,598 | 29,072 | 37,698 | 44,633 | 211,468 | 153,557 | 97,263 | 38,163 | 6,223 | 178 |
| First child | 240,364 | 6,062 | 94,750 | 10,978 | 16,763 | 20,594 | 22,838 | 23,577 | 74,918 | 39,184 | 18,863 | 5,724 | 842 | 21 |
| Second child | 191,637 | 222 | 35,519 | 1,153 | 3,350 | 6,768 | 10,722 | 13,526 | 67,964 | 48,088 | 28,819 | 9,753 | 1,245 | 27 |
| Third child | 117,638 | 14 | 10,751 | 63 | 364 | 1,374 | 3,309 | 5,641 | 40,632 | 33,493 | 22,651 | 8,798 | 1,265 | 34 |
| Fourth child | 56,675 | 1 | 2,250 | 6 | 23 | 184 | 593 | 1,444 | 17,774 | 17,091 | 12,792 | 5,759 | 984 | 24 |
| Fifth child | 25,897 | - | 327 | 3 | 6 | 18 | 64 | 236 | 6,527 | 8,302 | 6,594 | 3,401 | 727 | 19 |
| Sixth child | 11,581 | - | 36 | _ | _ | 1 | 7 | 28 | 1,947 | 3,790 | 3,434 | 1,948 | 410 | 16 |
| Seventh child | 5,354 | - | 7 | _ | _ | _ | 2 | 5 | 536 | 1,666 | 1,768 | 1,099 | 269 | 9 |
| Eighth child and over | 4,982 | - | 1 | _ | _ | _ | - | 1 | 163 | 1,107 | 1,792 | 1,449 | 445 | 25 |
| | 3,322 | 40 | 618 | 55 | 92 | 133 | 163 | 175 | 1,007 | 836 | 550 | 232 | 36 | 3 |

¹Includes races other than white and black.

NOTE: Excludes data for New Hampshire, which did not require reporting of Hispanic origin of mother.

Table 7. Estimated birth rates by age of mother, live-birth order, Hispanic origin of mother, and by race of mother for mothers of non-Hispanic origin: United States, 1992

[Live-birth order refers to number of children born alive to mother]

| | | | | | A | Age of moth | er | | | | |
|---------------------------------------|-----------------------------|----------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | | 15–19 year | S | | | | | | |
| Live-birth order and origin of mother | 15–44 years ¹ | 10–14 years | Total | 15–17 years | 18–19 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–44 years | 45–49 years |
| Hispanic | | | | | | | | | | | |
| Total | 108.6 | 2.6 | 107.1 | 71.4 | 159.7 | 190.6 | 154.4 | 96.8 | 45.6 | 10.9 | 0.6 |
| First child | 41.0 | 2.5 | 79.0 | 60.1 | 106.7 | 83.3 | 41.7 | 17.1 | 5.9 | 1.1 | 0.1 |
| Second child | 31.6 | 0.1 | 22.7 | 10.0 | 41.5 | 65.2 | 50.2 | 25.9 | 9.4 | 1.7 | 0.1 |
| Third child | 19.4 | * | 4.5 | 1.1 | 9.6 | 29.1 | 35.8 | 25.4 | 10.8 | 2.1 | 0.1 |
| Fourth child | 9.3 | * | 0.7 | 0.1 | 1.6 | 9.5 | 16.7 | 15.1 | 8.2 | 1.9 | 0.1 |
| Fifth child | 4.0 | * | 0.1 | * | 0.2 | 2.6 | 6.4 | 7.1 | 5.0 | 1.3 | 0.1 |
| Sixth and seventh child | 2.5 | * | * | * | * | 0.8 | 3.2 | 5.0 | 4.4 | 1.6 | 0.1 |
| Eighth child and over | 0.7 | * | * | * | * | 0.1 | 0.4 | 1.2 | 1.8 | 1.2 | 0.1 |
| Mexican | 116.0 | 2.5 | 108.8 | | | 202.3 | 166.3 | 99.1 | 47.7 | 11.8 | 8.0 |
| First child | 43.0 | 2.4 | 80.5 | | | 87.7 | 40.3 | 14.3 | 4.8 | 0.9 | * |
| Second child | 32.8 | 0.1 | 23.1 | | | 69.9 | 52.8 | 23.2 | 7.9 | 1.3 | 0.1 |
| Third child | 20.9 | * | 4.5 | | | 31.1 | 40.9 | 26.8 | 10.8 | 2.0 | * |
| Fourth child | 10.5 | * | 0.7 | | | 10.0 | 20.1 | 17.9 | 9.5 | 2.1 | 0.1 |
| Fifth child | 4.7 | * | 0.1 | | | 2.7 | 7.9 | 8.9 | 6.4 | 1.6 | 0.1 |
| Sixth and seventh child | 3.1 | * | * | | | 0.8 | 3.8 | 6.4 | 5.8 | 2.2 | 0.1 |
| Eighth child and over | 0.9 | * | * | | | 0.1 | 0.4 | 1.5 | 2.5 | 1.7 | 0.2 |
| Puerto Rican | 89.9 | 3.5 | 110.4 | | | 204.9 | 106.6 | 66.7 | 30.0 | 6.5 | 0.3 |
| First child | 35.0 | 3.4 | 77.0 | | | 78.9 | 29.7 | 14.1 | 5.2 | 0.8 | * |
| Second child | 26.9 | * | 25.5 | | | 68.1 | 34.6 | 20.6 | 7.8 | 1.4 | * |
| Third child | 16.0 | * | 6.3 | | | 38.1 | 23.1 | 16.6 | 7.4 | 1.6 | * |
| Fourth child | 7.0 | * | 1.3 | | | 13.9 | 11.0 | 8.4 | 4.6 | 1.1 | * |
| Fifth child | 2.9 | * | 0.2 | | | 4.4 | 4.8 | 3.7 | 2.5 | 0.7 | * |
| Sixth and seventh child | 1.7 | * | * | | | 1.5 | 2.8 | 2.6 | 1.7 | 0.6 | * |
| Eighth child and over | 0.4 | * | * | | | * | 0.5 | 8.0 | 0.9 | 0.3 | * |
| Cuban | 50.3 | 1.0 | 26.3 | | | 51.6 | 98.4 | 86.2 | 28.9 | 4.7 | 0.0 |
| First child | 21.4 | 1.0 | 21.3 | | | 30.2 | 43.8 | 24.5 | 6.2 | 0.8 | * |
| Second child | 17.8 | * | 4.3 | | | 15.8 | 36.1 | 35.7 | 10.8 | 1.8 | * |
| Third child | 7.7 | * | 0.7 | | | 4.2 | 13.3 | 18.3 | 7.8 | 1.0 | * |
| Fourth child | 2.2 | * | * | | | 1.1 | 3.7 | 5.0 | 2.7 | 0.5 | * |
| Fifth child | 0.7 | * | * | | | * | 0.9 | 1.7 | 0.8 | * | * |
| Sixth and seventh child | 0.4 | * | * | | | * | 0.5 | 0.8 | * | * | * |
| Eighth child and over | * | * | * | | | * | * | * | * | * | * |
| Other Hispanic ² | 107.0 | 2.5 | 112.1 | | | 172.9 | 157.8 | 106.6 | 50.3 | 12.5 | 0.5 |
| First child | 41.7 | 2.3 | 84.4 | | | 81.2 | 51.5 | 24.5 | 9.0 | 1.9 | * |
| Second child | 33.0 | 0.1 | 22.7 | | | 58.2 | 54.2 | 33.8 | 13.5 | 2.7 | * |
| Third child | 19.0 | * | 4.3 | | | 23.4 | 32.7 | 26.8 | 12.8 | 2.8 | * |
| Fourth child | 8.0 | * | 0.5 | | | 7.6 | 12.8 | 12.6 | 7.6 | 2.1 | * |
| Fifth child | 3.0 | * | * | | | 1.8 | 4.4 | 5.1 | 3.7 | 1.1 | * |
| Sixth and seventh child | 1.8 | * | * | | | 0.6 | 2.0 | 3.1 | 2.8 | 1.2 | * |
| Eighth child and over | 0.4 | * | * | | | * | 0.2 | 0.6 | 0.9 | 0.6 | * |

See footnotes at end of table.

Table 7. Estimated birth rates by age of mother, live-birth order, Hispanic origin of mother, and by race of mother for mothers of non-Hispanic origin: United States, 1992-Con.

[Live-birth order refers to number of children born alive to mother]

| | | | | | A | Age of mothe | er | | | | |
|---------------------------------------|-----------------------------|----------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | | 15–19 year | s | | | | | | |
| Live-birth order and origin of mother | 15–44 years ¹ | 10–14 years | Total | 15–17 years | 18–19 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–44 years | 45–49 years |
| Non-Hispanic ³ | | | | | | | | | | | |
| Total ⁴ | 64.4 | 1.2 | 54.4 | 33.2 | 85.5 | 104.7 | 112.7 | 78.4 | 31.2 | 5.4 | 0.2 |
| First child | 26.3 | 1.2 | 40.6 | 28.2 | 59.0 | 49.5 | 43.0 | 21.7 | 7.0 | 1.1 | 0.0 |
| Second child | 21.3 | 0.0 | 10.8 | 4.4 | 20.3 | 34.8 | 40.1 | 29.0 | 10.2 | 1.5 | 0.0 |
| Third child | 10.4 | 0.0 | 2.4 | 0.6 | 5.1 | 14.2 | 19.0 | 16.7 | 7.2 | 1.1 | 0.0 |
| Fourth child | 3.9 | * | 0.4 | 0.1 | 1.0 | 4.5 | 6.8 | 6.6 | 3.5 | 0.7 | 0.0 |
| Fifth child | 1.4 | * | 0.1 | 0.0 | 0.1 | 1.3 | 2.3 | 2.4 | 1.6 | 0.4 | 0.0 |
| Sixth and seventh child | 0.8 | * | 0.0 | * | 0.0 | 0.4 | 1.2 | 1.5 | 1.2 | 0.4 | 0.0 |
| Eighth child and over | 0.3 | * | * | * | * | 0.0 | 0.2 | 0.4 | 0.6 | 0.3 | 0.0 |
| White | 60.2 | 0.5 | 41.7 | 22.7 | 69.8 | 93.9 | 111.5 | 78.7 | 30.5 | 5.1 | 0.2 |
| First child | 25.2 | 0.4 | 33.4 | 20.5 | 52.6 | 48.0 | 44.7 | 22.5 | 7.2 | 1.1 | 0.0 |
| Second child | 20.5 | 0.0 | 7.1 | 2.1 | 14.5 | 31.7 | 41.0 | 30.0 | 10.3 | 1.5 | 0.0 |
| Third child | 9.5 | * | 1.1 | 0.2 | 2.4 | 10.8 | 18.0 | 16.9 | 7.1 | 1.0 | 0.0 |
| Fourth child | 3.2 | * | 0.1 | 0.0 | 0.3 | 2.6 | 5.6 | 6.1 | 3.3 | 0.6 | 0.0 |
| Fifth child | 1.0 | * | 0.0 | * | 0.0 | 0.5 | 1.5 | 2.0 | 1.3 | 0.3 | 0.0 |
| Sixth and seventh child | 0.5 | * | * | * | * | 0.1 | 0.6 | 1.1 | 0.9 | 0.3 | 0.0 |
| Eighth child and over | 0.2 | * | * | * | * | 0.0 | 0.1 | 0.2 | 0.4 | 0.2 | 0.0 |
| Black | 85.5 | 4.8 | 116.0 | 83.9 | 162.9 | 163.0 | 114.6 | 69.1 | 29.4 | 5.7 | 0.2 |
| First child | 31.4 | 4.7 | 76.5 | 65.8 | 92.2 | 58.0 | 29.4 | 13.5 | 4.4 | 0.8 | 0.0 |
| Second child | 25.0 | 0.2 | 28.7 | 15.3 | 48.2 | 52.6 | 36.1 | 20.6 | 7.5 | 1.1 | 0.0 |
| Third child | 15.4 | * | 8.7 | 2.5 | 17.8 | 31.4 | 25.1 | 16.2 | 6.8 | 1.2 | 0.0 |
| Fourth child | 7.4 | * | 1.8 | 0.3 | 4.0 | 13.8 | 12.8 | 9.2 | 4.5 | 0.9 | 0.0 |
| Fifth child | 3.4 | * | 0.3 | 0.0 | 0.6 | 5.1 | 6.2 | 4.7 | 2.6 | 0.7 | * |
| Sixth and seventh child | 2.2 | * | 0.0 | * | 0.1 | 1.9 | 4.1 | 3.7 | 2.4 | 0.6 | 0.0 |
| Eighth child and over | 0.7 | * | * | * | * | 0.1 | 0.8 | 1.3 | 1.1 | 0.4 | 0.0 |

¹Rates computed by relating total births, regardless of age of mother, to women aged 15–44 years. ²Includes Central and South American and other and unknown Hispanic. ³Includes origin not stated. ⁴Includes races other than white and black.

NOTES: Rates for Hispanic women based on birth data for 49 reporting States and the District of Columbia. Births for New Hampshire, which did not require reporting of Hispanic origin of mother, and births with origin not stated are included in the rates for non-Hispanic women. See Technical notes.

Table 8. Live births by race of mother, birth rates, and fertility rates: United States and each State, 1992

[By place of residence. Birth rates per 1,000 estimated population in each area; fertility rates per 1,000 women aged 15-44 years estimated in each area]

| | | | Number | | | | |
|----------------------|--------------|-----------|---------|---------------------------------|---------------------------------|---------------|-------------------|
| State | All races | White | Black | American Indian ¹ | Asian or Pacific Islander | Birth rate | Fertility rate |
| United States | 4,065,014 | 3,201,678 | 673,633 | 39,453 | 150,250 | 15.9 | 68.9 |
| Alabama | 62,260 | 40,180 | 21,522 | 80 | 478 | 15.0 | 64.8 |
| Alaska | 11,726 | 7,934 | 542 | 2,697 | 553 | 20.0 | 82.0 |
| Arizona | 68,829 | 59,432 | 2,448 | 5,911 | 1,038 | 18.0 | 80.4 |
| Arkansas | 34,820 | 26,289 | 8,152 | 162 | 217 | 14.5 | 66.2 |
| California | 601,730 | 492,487 | 46,509 | 3,215 | 59,519 | 19.5 | 83.1 |
| Colorado | 54,535 | 49,644 | 3,008 | 585 | 1,298 | 15.7 | 65.0 |
| Connecticut | 47,573 | 40,278 | 6,145 | 121 | 1,029 | 14.5 | 63.2 |
| Delaware | 10,656 | 7,901 | 2,553 | 29 | 173 | 15.4 | 65.2 |
| District of Columbia | 10,960 | 1,607 | 8,803 | 8 | 542 | 18.7 | 71.2 |
| Florida | 191,713 | 143,463 | 44,970 | 428 | 2,852 | 14.2 | 68.0 |
| Georgia | 111,116 | 68,819 | 40,382 | 89 | 1,826 | 16.4 | 66.9 |
| Hawaii | 19,864 | 5,738 | 685 | 183 | 13,258 | 17.2 | 75.2 |
| Idaho | 17,362 | 16,834 | 58 | 260 | 210 | 16.3 | 73.5 |
| Illinois | 191,396 | 142,842 | 42,923 | 264 | 5,367 | 16.5 | 71.4 |
| Indiana | 84,140 | 73,914 | 9,426 | 102 | 698 | 14.9 | 64.0 |
| lowa | 38,469 | 36,567 | 1,184 | 162 | 556 | 13.7 | 63.2 |
| Kansas | 38,027 | 33,674 | 3,314 | 331 | 708 | 15.1 | 68.2 |
| Kentucky | 53,840 | 48,227 | 5,188 | 59 | 366 | 14.3 | 61.5 |
| Louisiana | 70,707 | 39,757 | 29,841 | 241 | 868 | 16.5 | 69.8 |
| Maine | 16,057 | 15,762 | 82 | 71 | 142 | 13.0 | 56.3 |
| Maryland | 77,815 | 49,619 | 25,426 | 135 | 2,635 | 15.8 | 65.3 |
| Massachusetts | 87,231 | 75,141 | 8,647 | 146 | 3,297 | 14.6 | 60.8 |
| Michigan | 144,089 | 112,169 | 29,742 | 755 | 1,423 | 15.3 | 65.2 |
| Minnesota | 65,607 | 59,187 | 2,916 | 1,239 | 2,265 | 14.7 | 63.7 |
| Mississippi. | 42,681 | 21,704 | 20,524 | 187 | 266 | 16.3 | 70.2 |
| Missouri | 76,301 | 61,908 | 13,315 | 212 | 866 | 14.7 | 65.5 |
| Montana | 11,472 | 9,981 | 49 | 1,354 | 88 | 14.0 | 63.6 |
| Nebraska | 23,397 | 21,403 | 1,312 | 385 | 297 | 14.6 | 66.0 |
| Nevada | 22,374 | 18,962 | 2,163 | 380 | 869 | 16.7 | 73.6 |
| New Hampshire | 15,990 | 15,714 | 109 | 17 | 150 | 14.3 | 59.5 |
| New Jersey | 119,909 | 90,823 | 23,406 | 296 | 5,384 | 15.3 | 66.8 |
| New Mexico | 27,922 | 23,159 | 513 | 3,955 | 295 | 17.7 | 77.0 |
| New York | 287,887 | 212,579 | 60,990 | 1,066 | 13,252 | 15.9 | 68.1 |
| North Carolina | 103,967 | 70,772 | 30,333 | 1,549 | 1,313 | 15.2 | 64.7 |
| North Dakota | 8,811 | 7,831 | 75 | 810 | 95 | 13.2 | 63.6 |
| Ohio | 162,247 | 134,344 | 25,994 | 202 | 1,707 | 14.7 | 63.9 |
| Oklahoma | 47,557 | 37,305 | 5,164 | 4,410 | 678 | 14.8 | 66.5 |
| Oregon | 42,035 | 39,068 | 955 | 670 | 1,342 | 14.1 | 62.7 |
| Pennsylvania | 164,625 | 135,996 | 25,405 | 241 | 2,983 | 13.7 | 61.6 |
| Rhode Island | 14,500 | 12,673 | 1,186 | 123 | 2,983 518 | 14.5 | 62.5 |
| | | | • | | | | |
| South Delete | 56,192 | 33,977 | 21,604 | 81 | 530 80 | 15.6 | 65.5 |
| South Dakota | 11,018 | 9,110 | 79 | 1,749 | | 15.6 | 73.0 |
| Tennessee. | 73,614 | 55,279 | 17,510 | 116 | 709 | 14.6 | 62.5 |
| Texas | 320,845 | 270,198 | 43,016 | 678 | 6,953 | 18.1 | 76.1 |
| Utah | 37,200 | 35,317 | 245 | 748 | 890 | 20.5 | 88.5 |
| Vermont | 7,737 | 7,629 | 34 | 9 | 65 | 13.5 | 56.6 |
| Virginia | 97,198 | 70,137 | 23,854 | 125 | 3,082 | 15.2 | 62.6 |
| Washington | 79,450 | 70,081 | 3,145 | 1,662 | 4,562 | 15.4 | 66.1 |
| West Virginia | 22,170 | 21,248 | 815 | 9 | 98 | 12.3 | 54.6 |
| Wisconsin | 70,670 | 60,689 | 7,307 | 878 | 1,796 | 14.2 | 62.4 |
| Wyoming | 6,723 | 6,326 | 65 | 268 | 64 | 14.5 | 62.9 |

¹Includes births to Aleuts and Eskimos.

Table 9. Live births by Hispanic origin of mother and by race of mother for mothers of non-Hispanic origin: Total of 49 reporting States and the District of Columbia and each State, 1992

[By place of residence.]

| | | | | | | Origin | of mother | | | | |
|----------------------|----------------|---------|-------------|-----------------|-----------|----------------------------------|----------------------------------|--------------------|--------------|---------------|---------------|
| | | | | Hi | ispanic | | | ı | Non-Hispanic | | |
| State | All origins | Total | Mexican | Puerto Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ¹ | White | Black | Not stated |
| All reporting States | 4,049,024 | 643,271 | 432,047 | 59,569 | 11,472 | 89,031 | 51,152 | 3,365,862 | 2,527,207 | 657,450 | 39,891 |
| Alabama | 62,260 | 444 | 260 | 86 | 10 | 48 | 40 | 61,801 | 39,774 | 21,488 | 15 |
| Alaska | 11,726 | 373 | 197 | 38 | 8 | 48 | 82 | 11,338 | 7,590 | 531 | 15 |
| Arizona | 68,829 | 21,862 | 21,017 | 164 | 31 | 369 | 281 | 46,907 | 37,790 | 2,399 | 60 |
| Arkansas | 34,820 | 472 | 381 | 22 | 6 | 28 | 35 | 34,336 | 25,828 | 8,133 | 12 |
| California | 601,730 | 263,525 | 222,060 | 2,110 | 850 | 30,241 | 8,264 | 334,523 | 228,252 | 45,510 | 3,682 |
| Colorado | 54,535 | 10,303 | 5,375 | 148 | 25 | 181 | 4,574 | 44,201 | 39,512 | 2,919 | 31 |
| Connecticut | 47,573 | 5,476 | 167 | 3,824 | 63 | 753 | 669 | 39,607 | 33,228 | 5,349 | 2,490 |
| Delaware | 10,656 | 426 | 173 | 189 | 3 | 34 | 27 | 10,204 | 7,504 | 2,502 | 26 |
| District of Columbia | 10,960 | 893 | 68 | 8 | 7 | 767 | 43 | 10,025 | 1,319 | 8,521 | 42 |
| Florida | 191,713 | 29,367 | 5,318 | 4,793 | 7,555 | 9,580 | 2,121 | 162,220 | 115,131 | 43,954 | 126 |
| Georgia | 111,116 | 2,932 | 1,876 | 280 | 98 | 441 | 237 | 107,967 | 65,794 | 40,279 | 217 |
| Hawaii | 19,864 | 2,241 | 361 | 658 | 12 | 52 | 1,158 | 17,618 | 5,084 | 654 | 5 |
| Idaho | 17,362 | 1,758 | 1,421 | 14 | 2 | 38 | 283 | 15,566 | 15,065 | 55 | 38 |
| Illinois | 191,396 | 27,333 | 21,015 | 3,260 | 210 | 1,068 | 1,780 | 163,601 | 115,760 | 42,346 | 462 |
| Indiana | 84,140 | 1,941 | 1,422 | 266 | 13 | 75 | 165 | 82,109 | 71,956 | 9,392 | 90 |
| Iowa | 38,469 | 853 | 496 | 18 | 4 | 47 | 288 | 37,586 | 35,724 | 1,167 | 30 |
| Kansas | 38,027 | 2,311 | 1,939 | 69 | 8 | 99 | 196 | 35,584 | 31,283 | 3,287 | 132 |
| Kentucky | 53,840 | 372 | 188 | 61 | 12 | 19 | 92 | 53,403 | 47,840 | 5,167 | 65 |
| Louisiana | 70,707 | 977 | 259 | 54 | 63 | 469 | 132 | 69,719 | 38,900 | 29,751 | 11 |
| Maine | 16,057 | 101 | 31 | 13 | 3 | 3 | 51 | 15,313 | 15,033 | 75 | 643 |
| Maryland | 77,815 | 2,980 | 1,547 | 164 | 47 | 1,023 | 199 | 73,582 | 46,492 | 24,549 | 1,253 |
| Massachusetts | 87,231 | 8,522 | 257 | 4,717 | 114 | 3,171 | 263 | 78,132 | 67,564 | 7,141 | 577 |
| Michigan | 144,089 | 4,302 | 2,701 | 410 | 65 | 183 | 943 | 134,557 | 102,987 | 29,463 | 5,230 |
| Minnesota | 65,607 | 1,377 | 935 | 77 | 9 | 81 | 275 | 57,143 | 52,515 | 2,132 | 7,087 |
| Mississippi | 42,681 | 141 | 61 | 14 | 1 | 13 | 52 | 42,522 | 21,554 | 20,515 | 18 |
| Missouri | 76,301 | 1,018 | 726 | 70 | 24 | 95 | 103 | 75,228 | 60,901 | 13,282 | 55 |
| Montana | 11,472 | 189 | 138 | 3 | 3 | 3 | 42 | 10,879 | 9,458 | 36 | 404 |
| Nebraska | 23,397 | 1,105 | 878 | 11 | 4 | 40 | 172 | 21,993 | 20,013 | 1,306 | 299 |
| Nevada | 22,374 | 4,116 | 3,262 | 95 | 90 | 389 | 280 | 18,220 | 14,901 | 2,127 | 38 |
| New Jersey | 119,909 | 17,609 | 1,420 | 8,432 | 944 | 5,805 | 1,008 | 101,978 | 74,348 | 22,103 | 322 |
| • | | | | | | | | | | | |
| New Mexico | 27,922 | 12,957 | 3,386 | 33 | 55 597 | 64 | 9,419 | 14,964 | 10,331 | 489 55 540 | 11 117 |
| New York | 287,887 | 53,047 | 4,907 | 21,230 | 587 | 23,201 | 3,122 | 223,723 | 154,439 | 55,549 | 11,117 |
| North Carolina | 103,967 | 2,379 | 1,452 | 357 | 40 | 383 | 147 | 101,559 | 68,482 | 30,262 | 29 |
| North Dakota | 8,811 | 119 | 58 1,127 | 6 1,008 | 1 42 | 6 137 | 48 269 | 8,630 | 7,657 | 73 | 62 209 |
| Ohio | 162,247 | 2,583 | , | , | | | | 159,455 | 131,703 | 25,880 | |
| Oragon | 47,557 | 2,045 | 1,436 | 85 47 | 12 15 | 42 | 470 117 | 45,443 | 35,320 | 5,124 | 69 21 |
| Oregon | 42,035 | 3,561 | 3,209 | | | 173 | 117 | 38,453 | 35,577 | 943 | |
| Pennsylvania | 164,625 | 5,949 | 502 | 4,016 | 77 | 529 | 825 | 158,425 | 130,265 | 24,987 | 251 |
| Rhode Island | 14,500 | 1,553 | 66 290 | 524 | 11 16 | 842 | 110 195 | 12,029 | 10,408 | 1,017 | 918 |
| South Carolina | 56,192 | 625 | | 110 | 10 | 14 | | 55,495 | 33,379 | 21,535 | 72 |
| South Dakota | 11,018 | 109 | 94 | 3 | _ | 6 | 6 | 10,894 | 9,008 | 74 | 15 |
| Tennessee | 73,614 | 595 | 323 | 104 | 12 | 63 | 93 | 73,000 | 54,700 | 17,490 | 19 |
| Texas | 320,845 | 126,357 | 109,730 | 797 | 206 | 5,600 | 10,024 | 194,214 | 143,915 | 42,786 | 274 |
| Utah | 37,200 | 2,282 | 1,461 | 64 | 15 | 304 | 438 | 34,867 | 33,062 | 208 | 51 |
| Vermont | 7,737 | 30 | 14 | 8 | 2 | 1 | 5 | 6,775 | 6,672 | 32 | 932 |
| Virginia | 97,198 | 3,890 | 691 | 438 | 60 | 2,275 | 426 | 93,225 | 66,370 | 23,737 | 83 |
| Washington | 79,450 | 7,182 | 5,475 | 184 | 21 | 126 | 1,376 | 70,056 | 61,224 | 2,993 | 2,212 |
| West Virginia | 22,170 | 75 | 37 | 10 | 2 | 5 | 21 | 22,090 | 21,185 | 812 | 5 |
| Wisconsin | 70,670 | 2,132 | 1,455 | 471 | 14 | 86 | 106 | 68,468 | 58,558 | 7,265 | 70 |
| | 6,723 | 482 | 385 | 6 | _ | 11 | 80 | 6,235 | 5,852 | 61 | 6 |

¹Includes races other than white and black.

NOTE: Excludes data for New Hampshire, which did not require reporting Hispanic origin of mother.

Table 10. Total number of births, rates, and percent of births with selected demographic characteristics, by specified race of mother: United States, 1992

| | | | | | | | Asian or Pac | ific Islander | | |
|-----------------------------------|--------------|-----------|---------|---------------------------------|---------|---------|--------------|---------------|----------|--------|
| Characteristic | All races | White | Black | American Indian ¹ | Total | Chinese | Japanese | Hawaiian | Filipino | Other |
| | | | | | Numl | oer | | | | |
| Births | 4,065,014 | 3,201,678 | 673,633 | 39,453 | 150,250 | 25,061 | 9,098 | 5,883 | 28,959 | 81,249 |
| | | | | | Rate | ! | | | | |
| Birth rate ² | 15.9 | 15.0 | 21.3 | 18.4 | 18.0 | | | | | |
| Fertility rate ³ | 68.9 | 66.5 | 83.2 | 75.4 | 67.2 | | | | | |
| Total fertility rate 4 | 2,065.0 | 1,993.5 | 2,442.0 | 2,190.0 | 1,942.0 | | | | | |
| Sex ratio ⁵ | 1,050 | 1,053 | 1,036 | 1,034 | 1,065 | 1,065 | 1,049 | 1,064 | 1,083 | 1,062 |
| | | | | | Perc | ent | | | | |
| Births to mothers under 20 years | 12.7 | 10.9 | 22.7 | 20.0 | 5.6 | 1.0 | 2.6 | 18.4 | 5.6 | 6.4 |
| Fourth- and higher-order births | 10.8 | 9.6 | 16.0 | 22.4 | 10.4 | 3.2 | 3.8 | 15.4 | 7.2 | 14.2 |
| Interval since last live birth | | | | | | | | | | |
| of less than 18 months 6 | 13.2 | 11.7 | 19.6 | 19.6 | 15.0 | 10.3 | 6.9 | 18.7 | 11.7 | 17.8 |
| Births to unmarried mothers | 30.1 | 22.6 | 68.1 | 55.3 | 14.7 | 6.1 | 9.8 | 45.7 | 16.8 | 14.9 |
| of school | 76.4 | 77.7 | 70.0 | 64.1 | 81.0 | 84.8 | 97.6 | 81.4 | 90.7 | 74.3 |
| Mothers born in the United States | 83.0 | 84.2 | 91.8 | 95.9 | 14.8 | 9.1 | 49.1 | 97.5 | 14.3 | 6.8 |

¹Includes births to Aleuts and Eskimos.

²Rate per 1,000 population.

³Rate per 1,000 women aged 15–44 years.

⁴Rates are sums of birth rates for 5-year age groups multiplied by 5.

⁵Male live births per 1,000 female live births.

⁶Refers only to second- and higher-order births.

Table 11. Total number of births, rates, and percent of births with selected demographic characteristics, by Hispanic origin of mother and by race of mother for mothers of non-Hispanic origin: Total of 49 reporting States and the District of Columbia, 1992

| | | | | | Orig | in of mother | | | | |
|--|-----------------------------|--------------|--------------|-----------------|--------------|----------------------------------|----------------------------------|--------------------|--------------|--------------|
| | | | | Н | ispanic | | | 1 | Non-Hispanic | |
| Characteristic | All origins ¹ | Total | Mexican | Puerto Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ² | White | Black |
| | | | | | | Number | | | | |
| Births | 4,049,024 | 643,271 | 432,047 | 59,569 | 11,472 | 89,031 | 51,152 | 3,365,862 | 2,527,207 | 657,450 |
| | | | | | | Rate ³ | | | | |
| Birth rate ⁴ | 15.9 | 26.5 | 27.8 | 23.2 | 10.1 | | 27.9 | 14.8 | 13.5 | 21.9 |
| Fertility rate ⁵ | 68.9 | 108.6 | 116.0 | 89.9 | 50.3 | 10 | 07.0 | 64.4 | 60.2 | 85.5 |
| Total fertility rate 6 | 2,065.0 | 3,043.0 | 3,196.5 | 2,644.5 | 1,485.5 | 3,07 | 76.0 | 1,941.0 | 1,810.5 | 2,514.0 |
| Sex ratio ⁷ | 1,050 | 1,041 | 1,040 | 1,057 | 1,079 | 1,040 | 1,030 | 1,052 | 1,056 | 1,036 |
| | | | | | | Percent | | | | |
| Births to mothers under 20 years | 12.8 | 17.1 | 18.0 | 21.4 | 7.1 | 9.6 | 20.0 | 12.0 | 9.4 | 22.9 |
| Fourth- and higher-order births | 10.8 | 15.2 | 16.6 | 13.3 | 6.6 | 12.5 | 12.1 | 10.0 | 8.2 | 16.0 |
| Interval since last live birth | | 4= 0 | 400 | | | 40.0 | | 40.0 | 40.0 | |
| of less than 18 months ⁸ | 13.3 30.2 | 15.8 | 16.2 | 17.9 | 10.6 | 12.9 | 15.9 37.6 | 12.8 | 10.6 | 19.7 |
| Births to unmarried mothers | 30.2 76.4 | 39.1 45.9 | 36.3 38.7 | 57.5 59.0 | 20.2 84.4 | 43.9 56.4 | 37.6 65.3 | 28.5 82.1 | 18.5 85.5 | 68.3 70.2 |
| Mothers completing 12 years or more of school Mothers born in the United States | 82.9 | 37.5 | 36.4 | 58.9 | 27.7 | 5.6 | 80.2 | 91.6 | 95.6 | 93.0 |

¹Includes origin not stated.

[Rates on an annual basis per 1,000 population for specified month. Birth rates based on the total population. Fertility rates based on women aged 15-44 years]

| | | Number | | Ob: | served | Seasona | lly adjusted1 |
|-----------|------------------------|-----------|---------|------------|----------------|------------|----------------|
| Month | All races ² | White | Black | Birth rate | Fertility rate | Birth rate | Fertility rate |
| Total | 4,065,014 | 3,201,678 | 673,633 | 15.9 | 68.9 | | |
| January | 334,045 | 260,383 | 57,934 | 15.5 | 66.8 | 16.3 | 70.0 |
| February | 315,448 | 247,679 | 52,932 | 15.7 | 67.5 | 16.1 | 69.1 |
| March | 339,518 | 269,301 | 54,687 | 15.8 | 67.9 | 16.0 | 69.0 |
| April | 333,373 | 266,064 | 51,880 | 16.0 | 68.9 | 16.2 | 69.8 |
| May | 344,137 | 273,894 | 54,302 | 16.0 | 68.9 | 16.0 | 69.2 |
| lune | 339,664 | 269,004 | 54,988 | 16.3 | 70.2 | 16.0 | 69.0 |
| luly | 359,112 | 283,028 | 59,917 | 16.6 | 71.8 | 16.0 | 69.0 |
| August | 348,949 | 274,646 | 58,254 | 16.1 | 69.8 | 15.3 | 66.2 |
| September | 347,547 | 273,412 | 57,821 | 16.6 | 71.8 | 15.8 | 68.2 |
| October | 343,546 | 269,701 | 57,537 | 15.8 | 68.7 | 15.9 | 68.8 |
| November | 321,943 | 251,225 | 55,233 | 15.3 | 66.5 | 15.8 | 68.7 |
| December | 337,732 | 263,341 | 58,148 | 15.6 | 67.5 | 16.0 | 69.6 |

¹The method of seasonal adjustment, developed by the U.S. Bureau of the Census, is described in The X-11 Variant of the Census Method II Seasonal Adjustment Program, Technical Paper No. 15 (1967 revision). ²Includes races other than white and black.

²Includes races other than white and black.
³Birth, fertility, and total fertility rates by Hispanic origin are estimated for the United States. Rates for Hispanic women are based on birth data for 49 reporting States and the District of Columbia. Births for New Hampshire, which did not require reporting of Hispanic origin, and births with origin not stated are included in the rates for non-Hispanic women. See Technical notes.

Rate per 1,000 population.

Rate per 1,000 women aged 15–44 years.

⁶Rates are sums of birth rates for 5-year age groups multiplied by 5.

⁷Male live births per 1,000 female live births. ⁸Refers only to second- and higher-order births.

Table 12. Live births by race of mother and observed and seasonally adjusted birth and fertility rates, by month: United States, 1992

Table 13. Live births by day of week and index of occurrence by method of delivery, day of week, and race of mother: United States, 1992

Index of occurrence1 Method of delivery Average Cesarean number Day of week and race of mother of births Total2 Vaginal Total Primary Repeat 11,107 100.0 100.0 100.0 100.0 100.0 8,754 78.8 84.9 58.0 69.0 39.9 11,398 102.6 101.0 108.3 99.7 122.5 12,333 111.0 108.5 120.0 116.1 126.4 11,957 107.7 105.8 114.1 111.7 118.0 11,895 107.1 105.3 113.2 110.2 118.2 11.957 107.7 104.5 118.4 112.8 127.8 Saturday..... 9,420 84.8 89.9 67.4 80.0 46.5 8,748 100.0 100.0 100.0 100.0 100.0 White...... 83.1 55.7 67.1 37.2 6,722 76.8 9.030 103.2 101.5 109.3 124.2 100.1 9,804 112.1 109.4 121.1 117.1 127.6 9,475 108.3 106.5 114.5 112.2 118.2 9,429 107.8 105.9 113.9 110.8 118.9 9.467 108.2 104.8 119.8 113.7 129.7 7,280 83.2 88.5 65.2 78.6 43.4 Saturday..... 1,841 100.0 100.0 100.0 100.0 100.0 1,588 86.3 91.7 67.4 76.5 51.5 1,837 99.8 98.6 104.0 97.9 114.6 1,978 107.5 105.2 115.6 112.2 121.5 1,940 105.4 103.1 113.2 110.2 118.5 1,925 102.8 114.4 104.6 110.6 108.5 1,940 105.4 118.3 103.4 112.2 108.7 Saturday................ 1,673 90.9 95.1 76.5 85.6 60.6

¹Index is the ratio of the average number of births by a specified method of delivery on a given day of the week to the average daily number of births by a specified method of delivery for the year, multiplied by 100.

year, multiplied by 100.

²Includes method of delivery not stated.

³Includes races other than white and black

Table 14. Number, rate, and ratio of births to unmarried women by age and race of mother: United States, 1992

| | | Number | | | 1,000 unm n specified (| | Ratio per | r 1,000 live | births |
|-------------------|------------------------|---------|-----------------|------------------------|----------------------------|-------------------|------------------------|--------------|--------|
| Age of mother | All races ¹ | White | Black | All races ¹ | White | Black | All races ¹ | White | Black |
| All ages | 1,224,876 | 721,986 | 458,969 | ² 45.2 | ² 35.2 | ² 86.5 | 301.3 | 225.5 | 681.3 |
| Under 15 years | 11,161 | 4,553 | 6,296 | | | | 913.3 | 848.3 | 976.4 |
| 15–19 years | 353,878 | 206,830 | 135,994 | 44.6 | 33.0 | 105.9 | 700.2 | 603.5 | 926.4 |
| 15 years | 25,459 | 12,664 | 12,059 | | | | 869.9 | 793.2 | 970.0 |
| 16 years | 49,021 | 27,323 | 20,158 | 30.4 | 21.6 | 78.0 | 815.2 | 733.4 | 961.3 |
| 17 years | 74,103 | 43,861 | 27,985 J | | | | 755.0 | 669.0 | 945.4 |
| 18 years | 96,009 | 57,566 | 35,422 | 67.3 | 51.5 | 147.8 | 692.4 | 600.0 | 923.4 |
| 19 years | 109,286 | 65,416 | 40,370) | | | | 609.8 | 511.0 | 888.5 |
| 20–24 years | 435,727 | 258,268 | 162,561 | 68.5 | 52.7 | 144.3 | 407.0 | 317.1 | 752.4 |
| 25–29 years | 233,467 | 137,639 | 86,853 | 56.5 | 45.4 | 98.2 | 198.0 | 142.7 | 549.8 |
| 30–34 years | 127,982 | 75,696 | 46,860 | 37.9 | 31.5 | 57.7 | 143.0 | 101.5 | 467.0 |
| 35–39 years | 52,447 | 32,218 | 17,608 | 18.8 | 16.2 | 25.8 | 152.2 | 114.0 | 447.0 |
| 40 years and over | 10,214 | 6,782 | 2,797 | ³ 4.1 | ³ 3.6 | ³ 5.4 | 177.0 | 146.0 | 421.2 |

NOTE: For 44 States and the District of Columbia, marital status of mother is reported on the birth certificate; for 6 States, mother's marital status is inferred; see Technical notes.

¹Includes races other than white and black.

Rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15–44 years.

Rates computed by relating births to unmarried mothers aged 40 years and over to unmarried women aged 40–44 years.

Table 15. Birth rates for unmarried women by age of mother and race: United States, 1970, 1975, and 1980-92

[Rates are live births to unmarried women per 1,000 unmarried women in specified group, estimated as of July 1]

| | | | | | Age of mothe | r | | | |
|------------------------|-----------------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|
| | | | 15–19 years | | | | | | |
| Year and race | 15–44 years ¹ | Total | 15–17 years | 18–19 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–44 years ² |
| All races ³ | | | | | | | | | |
| 19924 | 45.2 | 44.6 | 30.4 | 67.3 | 68.5 | 56.5 | 37.9 | 18.8 | 4.1 |
| 1991 4 | 45.2 | 44.8 | 30.9 | 65.7 | 68.0 | 56.5 | 38.1 | 18.0 | 3.8 |
| 1990 4 | 43.8 | 42.5 | 29.6 | 60.7 | 65.1 | 56.0 | 37.6 | 17.3 | 3.6 |
| 19894 | 41.6 | 40.1 | 28.7 | 56.0 | 61.2 | 52.8 | 34.9 | 16.0 | 3.4 |
| 1988 ⁴ | 38.5 | 36.4 | 26.4 | 51.5 | 56.0 | 48.5 | 32.0 | 15.0 | 3.2 |
| 1987 ⁴ | 36.0 | 33.8 | 24.5 | 48.9 | 52.6 | 44.5 | 29.6 | 13.5 | 2.9 |
| 1986 ⁴ | 34.2 | 32.3 | 22.8 | 48.0 | 49.3 | 42.2 | 27.2 | 12.2 | 2.7 |
| 1985 ⁴ | 32.8 | 31.4 | 22.4 | 45.9 | 46.5 | 39.9 | 25.2 | 11.6 | 2.5 |
| 1984 ^{4,5} | 31.0 | 30.0 | 21.9 | 42.5 | 43.0 | 37.1 | 23.3 | 10.9 | 2.5 |
| 1983 ^{4,5} | 30.3 | 29.5 | 22.0 | 40.7 | 41.8 | 35.5 | 22.4 | 10.2 | 2.6 |
| 1982 ^{4,5} | 30.0 | 28.7 | 21.5 | 39.6 | 41.5 | 35.1 | 21.9 | 10.0 | 2.7 |
| 1981 ^{4,5} | 29.5 | 27.9 | 20.9 | 39.0 | 41.1 | 34.5 | 20.8 | 9.8 | 2.6 |
| 1980 ^{4,5} | 29.4 | 27.6 | 20.6 | 39.0 | 40.9 | 34.0 | 21.1 | 9.7 | 2.6 |
| 1980 ^{5,6} | 28.4 | 27.5 | 20.7 | 38.7 | 39.7 | 31.4 | 18.5 | 8.4 | 2.3 |
| 1975 ^{5,6} | 24.5 | 23.9 | 19.3 | 32.5 | 31.2 | 27.5 | 17.9 | 9.1 | 2.6 |
| 1970 ^{6,7} | 26.4 | 22.4 | 17.1 | 32.9 | 38.4 | 37.0 | 27.1 | 13.6 | 3.5 |
| White | | | | | | | | | |
| Race of mother: | | | | | | | | | |
| 19924 | 35.2 | 33.0 | 21.6 | 51.5 | 52.7 | 45.4 | 31.5 | 16.2 | 3.6 |
| 1991 ⁴ | 34.6 | 32.8 | 21.8 | 49.6 | 51.5 | 44.6 | 31.1 | 15.2 | 3.2 |
| 19904 | 32.9 | 30.6 | 20.4 | 44.9 | 48.2 | 43.0 | 29.9 | 14.5 | 3.2 |
| 1989 ⁴ | 30.2 | 28.0 | 19.3 | 40.2 | 43.8 | 39.1 | 26.8 | 13.1 | 2.9 |
| 1988 ⁴ | 27.4 | 25.3 | 17.6 | 36.8 | 39.2 | 35.4 | 24.2 | 12.1 | 2.7 |
| 1987 ⁴ | 25.3 | 23.2 | 16.2 | 34.5 | 36.6 | 32.0 | 22.3 | 10.7 | 2.4 |
| 1986 ⁴ | 23.9 | 21.8 | 14.9 | 33.5 | 34.2 | 30.5 | 20.1 | 9.7 | 2.2 |
| 1985 ⁴ | 22.5 | 20.8 | 14.5 | 31.2 | 31.7 | 28.5 | 18.4 | 9.0 | 2.0 |
| 1984 ^{4,5} | 20.6 | 19.3 | 13.7 | 27.9 | 28.5 | 25.5 | 16.8 | 8.4 | 2.0 |
| 1983 ^{4,5} | 19.8 | 18.7 | 13.6 | 26.4 | 27.1 | 23.8 | 15.9 | 7.8 | 2.0 |
| 1982 ^{4,5} | 19.3 | 18.0 | 13.1 | 25.3 | 26.5 | 23.1 | 15.3 | 7.4 | 2.1 |
| 1981 ^{4,5} | 18.6 | 17.2 | 12.6 | 24.6 | 25.8 | 22.3 | 14.2 | 7.2 | 1.9 |
| 1980 ^{4,5} | 18.1 | 16.5 | 12.0 | 24.1 | 25.1 | 21.5 | 14.1 | 7.1 | 1.8 |
| Race of child: | | | | | | | | | |
| 1980 ^{5,6} | 16.2 | 15.9 | 11.7 | 22.8 | 22.4 | 17.3 | 10.5 | 5.3 | 1.4 |
| 1975 ^{5,6} | 12.4 | 12.0 | 9.6 | 16.5 | 15.5 | 14.8 | 9.8 | 5.4 | 1.5 |
| 1970 6,7 | 13.9 | 10.9 | 7.5 | 17.6 | 22.5 | 21.1 | 14.2 | 7.6 | 2.0 |
| | | | | | | | | | |

See footnotes at end of table.

Table 15. Birth rates for unmarried women by age of mother and race: United States, 1970, 1975, and 1980-92-Con.

[Rates are live births to unmarried women per 1,000 unmarried women in specified group, estimated as of July 1]

| | | | | | Age of mothe | r | | | |
|---------------------|-----------------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|
| | | | 15–19 years | | | | | | |
| Year and race | 15–44 years ¹ | Total | 15–17 years | 18–19 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–44 years ² |
| Black | | | | | | | | | |
| Race of mother: | | | | | | | | | |
| 1992 ⁴ | 86.5 | 105.9 | 78.0 | 147.8 | 144.3 | 98.2 | 57.7 | 25.8 | 5.4 |
| 1991 ⁴ | 89.5 | 108.5 | 80.4 | 148.7 | 147.5 | 100.9 | 60.1 | 25.6 | 5.4 |
| 19904 | 90.5 | 106.0 | 78.8 | 143.7 | 144.8 | 105.3 | 61.5 | 25.5 | 5.1 |
| 1989 ⁴ | 90.7 | 104.5 | 78.9 | 140.9 | 142.4 | 102.9 | 60.5 | 24.9 | 5.0 |
| 1988 ⁴ | 86.5 | 96.1 | 73.5 | 130.5 | 133.6 | 97.2 | 57.4 | 24.1 | 5.0 |
| 1987 ⁴ | 82.6 | 90.9 | 69.9 | 123.0 | 126.1 | 91.6 | 53.1 | 22.4 | 4.7 |
| 1986 ⁴ | 79.0 | 88.5 | 67.0 | 121.1 | 118.0 | 84.6 | 50.0 | 20.6 | 4.4 |
| 1985 ⁴ | 77.0 | 87.6 | 66.8 | 117.9 | 113.1 | 79.3 | 47.5 | 20.4 | 4.3 |
| 1984 ^{4,5} | 75.2 | 86.1 | 66.5 | 113.6 | 107.9 | 77.8 | 43.8 | 19.4 | 4.3 |
| 1983 ^{4,5} | 76.2 | 85.5 | 66.8 | 111.9 | 107.2 | 79.7 | 43.8 | 19.4 | 4.8 |
| 1982 ^{4,5} | 77.9 | 85.1 | 66.3 | 112.7 | 109.3 | 82.7 | 44.1 | 19.5 | 5.2 |
| 1981 ^{4,5} | 79.4 | 85.0 | 65.9 | 114.2 | 110.7 | 83.1 | 45.5 | 19.6 | 5.6 |
| 1980 ^{4,5} | 81.1 | 87.9 | 68.8 | 118.2 | 112.3 | 81.4 | 46.7 | 19.0 | 5.5 |
| Race of child: | | | | | | | | | |
| 1980 ^{5,6} | 83.2 | 90.3 | 70.6 | 121.8 | 116.0 | 82.9 | 47.0 | 18.5 | 5.5 |
| 1975 ^{5,6} | 84.2 | 93.5 | 76.8 | 123.8 | 108.0 | 75.7 | 50.0 | 20.5 | 7.2 |
| 1970 ^{6,7} | 95.5 | 96.9 | 77.9 | 136.4 | 131.5 | 100.9 | 71.8 | 32.9 | 10.4 |

Rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15–44 years.

Rates computed by relating births to unmarried mothers aged 40 years and over to unmarried women aged 40–44 years.

Includes races other than white and black.

Data for States in which marital status was not reported have been inferred and included with data from the remaining States; see Technical notes.

Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

Births to unmarried women are estimated for the United States from data for registration areas in which marital status of mother was reported; see Technical notes. ⁷Based on a 50-percent sample of births.

Table 16. Number and percent of births to unmarried women and number and percent of births of low birthweight, by race of mother: United States and each State, 1992

[By place of residence]

| | | Births | s to unmarr | ied women ¹ | | | Low birthweight ² | | | | | |
|----------------------|------------------------|-----------------|----------------|------------------------|--------------|--------------|------------------------------|--------------|--------------|------------------------|------------|--------------|
| | | Number | | F | Percent | | | Number | | P | ercent | |
| State | All races ³ | White | Black | All races ³ | White | Black | All races ³ | White | Black | All races ³ | White | Black |
| United States | 1,224,876 | 721,986 | 458,969 | 30.1 | 22.6 | 68.1 | 287,493 | 185,662 | 89,517 | 7.1 | 5.8 | 13.3 |
| Alabama | 20,272 | 5,517 | 14,680 | 32.6 | 13.7 | 68.2 | 5,264 | 2,470 | 2,763 | 8.5 | 6.2 | 12.8 |
| Alaska | 3,215 | 1,505 | 191 | 27.4 | 19.0 | 35.2 | 577 | 344 | 58 | 4.9 | 4.3 | 10.7 |
| Arizona | 24,939 | 19,443 | 1,598 | 36.2 | 32.7 | 65.3 | 4,419 | 3,684 | 306 | 6.4 | 6.2 | 12.5 |
| Arkansas | 10,781 | 4,886 | 5,822 | 31.0 | 18.6 | 71.4 | 2,835 | 1,720 | 1,095 | 8.2 | 6.5 | 13.5 |
| California | 206,396 | 167,651 | 29,226 | 34.3 | 34.0 | 62.8 | 35,704 | 25,890 | 5,880 | 5.9 | 5.3 | 12.6 |
| Colorado | 12,971 | 10,801 | 1,686 | 23.8 | 21.8 | 56.1 | 4,632 | 3,964 | 509 | 8.5 | 8.0 | 16.9 |
| Connecticut | 13,657 3,470 | 8,934 1,503 | 4,347 | 28.7 32.6 | 22.2 20.2 | 70.7 72.6 | 3,264 806 | 2,324 459 | 857 333 | 6.9 7.6 | 5.8 5.8 | 14.0 13.1 |
| District of Columbia | 7,334 | 1,593 244 | 1,853 6,828 | 66.9 | 15.2 | 77.6 | 1,556 | 73 | 1,438 | 14.3 | 5.6 4.6 | 16.4 |
| Florida | 65,491 | 33,993 | 30,963 | 34.2 | 23.7 | 68.9 | 14,239 | 8,596 | 5,408 | 7.4 | 6.0 | 12.0 |
| | | | | | | | | | | | | |
| Georgia | 38,925 | 11,607 | 27,103 | 35.0 | 16.9 | 67.1 | 9,490 | 4,105 | 5,267 | 8.5 | 6.0 | 13.1 |
| Hawaii | 5,204 | 888 | 133 21 | 26.2 | 15.5 | 19.4 36.2 | 1,430 | 309 922 | 73 5 | 7.2 5.5 | 5.4 5.5 | 10.7 |
| Idaho | 3,179 63,979 | 3,016 29,544 | 33,993 | 18.3 33.4 | 17.9 20.7 | 79.2 | 955 14,772 | 8,114 | 6,258 | 5.5 7.7 | 5.7 | 14.6 |
| Indiana. | 24,786 | 17,461 | 7,237 | 29.5 | 23.6 | 76.8 | 5,635 | 4,422 | 1,165 | 6.7 | 6.0 | 12.4 |
| lowa | 9,058 | 7,990 | 889 | 23.5 | 21.9 | 75.1 | 2,200 | 1,989 | 152 | 5.7 | 5.4 | 12.9 |
| Kansas | 9,224 | 6,789 | 2,180 | 24.3 | 20.2 | 65.8 | 2,451 | 2,007 | 383 | 6.4 | 6.0 | 11.6 |
| Kentucky | 14,181 | 10,455 | 3,659 | 26.3 | 21.7 | 70.5 | 3,681 | 3,050 | 611 | 6.8 | 6.3 | 11.8 |
| Louisiana | 28,452 | 7,350 | 20,899 | 40.2 | 18.5 | 70.0 | 6,620 | 2,477 | 4,080 | 9.4 | 6.2 | 13.7 |
| Maine | 4,063 | 3,980 | 30 | 25.3 | 25.3 | 36.6 | 808 | 793 | 5 | 5.0 | 5.0 | * |
| Maryland | 23,717 | 8,089 | 15,303 | 30.5 | 16.3 | 60.2 | 6,432 | 2,799 | 3,464 | 8.3 | 5.7 | 13.7 |
| Massachusetts | 22,618 | 16,368 | 5,446 | 25.9 | 21.8 | 63.0 | 5,185 | 4,019 | 940 | 6.0 | 5.4 | 10.9 |
| Michigan. | 38,620 | 16,838 | 21,431 | 26.8 | 15.0 | 72.1 | 10,780 | 6,257 | 4,393 | 7.5 | 5.6 | 14.8 |
| Minnesota | 15,058 | 11,451 | 2,170 | 23.0 | 19.3 | 74.4 | 3,408 | 2,867 | 333 | 5.2 | 4.8 | 11.4 |
| Mississippi | 18,312 | 3,291 | 14,872 | 42.9 | 15.2 | 72.5 | 4,221 | 1,473 | 2,705 | 9.9 | 6.8 | 13.2 |
| Missouri | 24,049 | 13,340 | 10,474 | 31.5 | 21.5 | 78.7 | 5,587 | 3,701 | 1,811 | 7.3 | 6.0 | 13.6 |
| Montana | 3,032 | 2,076 | 17 | 26.4 | 20.8 | * | 688 | 600 | 5 | 6.0 | 6.0 | * |
| Nebraska | 5,290 | 4,019 | 954 | 22.6 | 18.8 | 72.7 | 1,315 | 1,124 | 155 | 5.6 | 5.3 | 11.8 |
| Nevada | 7,449 | 5,462 | 1,555 | 33.3 | 28.8 | 71.9 | 1,599 | 1,218 | 298 | 7.1 | 6.4 | 13.8 |
| New Hampshire | 3,068 | 3,000 | 54 | 19.2 | 19.1 | 49.5 | 841 | 821 | 9 | 5.3 | 5.2 | * |
| New Jersey | 31,631 | 15,821 | 15,385 | 26.4 | 17.4 | 65.7 | 8,664 | 5,136 | 3,143 | 7.2 | 5.7 | 13.5 |
| New Mexico | 11,023 | 8,003 | 298 | 39.5 | 34.6 | 58.1 | 2,013 | 1,696 | 68 | 7.2 | 7.3 | 13.3 |
| New York | 100,260 | 56,641 | 41,360 | 34.8 | 26.6 | 67.8 | 21,841 | 12,924 | 7,973 | 7.6 | 6.1 | 13.1 |
| North Carolina | 32,547 | 11,394 | 20,262 | 31.3 | 16.1 | 66.8 | 8,737 | 4,499 | 4,015 | 8.4 | 6.4 | 13.2 |
| North Dakota | 1,995 | 1,425 | 15 | 22.6 | 18.2 | * | 448 | 390 | 10 | 5.1 | 5.0 | * |
| Ohio | 51,317 | 31,024 | 20,051 | 31.6 | 23.1 | 77.1 | 11,920 | 8,190 | 3,600 | 7.4 | 6.1 | 13.9 |
| Oklahoma | 13,486 | 8,025 | 3,532 | 28.4 | 21.5 | 68.4 | 3,175 | 2,252 | 634 | 6.7 | 6.1 | 12.4 |
| Oregon | 11,343 | 10,059 | 676 | 27.0 | 25.7 | 70.8 | 2,175 | 1,938 | 104 | 5.2 | 5.0 | 10.9 |
| Pennsylvania | 51,959 4,298 | 31,183 3,256 | 20,181 797 | 31.6 29.6 | 22.9 25.7 | 79.4 67.2 | 11,799 897 | 7,897 738 | 3,689 109 | 7.2 6.3 | 5.8 5.9 | 14.5 9.3 |
| | | | | | | | | | | | | |
| South Carolina | 19,934 | 5,693 | 14,173 | 35.5 | 16.8 | 65.6 | 5,066 | 2,146 | 2,879 | 9.0 | 6.3 | 13.3 |
| South Dakota | 2,933 | 1,652 | 26 | 26.6 | 18.1 | 32.9 | 573 | 462 | 7 | 5.2 | 5.1 | * |
| Tennessee | 24,061 | 11,088 | 12,829 | 32.7 | 20.1 | 73.3 | 6,241 | 3,722 | 2,451 | 8.5 | 6.7 | 14.0 |
| Texas | 55,994 | 35,324 | 20,032 | 17.5 | 13.1 | 46.6 | 22,388 | 16,277 | 5,583 | 7.0 | 6.0 | 13.0 |
| Utah | 5,634 | 5,004 | 127 | 15.1 | 14.2 | 51.8 * | 2,085 | 1,964 | 22 | 5.6 | 5.6 | 9.0 |
| Vermont | 1,811 | 1,774 | 15 227 | 23.4 | 23.3 | | 431 | 422 | 3 000 | 5.6 | 5.5 5.7 | 10.0 |
| Virginia | 27,538 | 11,924 | 15,237 | 28.3 | 17.0 | 63.9 55.3 | 7,158 4,205 | 3,968 | 3,000 | 7.4 5.3 | 5.7 4.0 | 12.6 |
| Washington | 20,116 | 16,448 | 1,740 | 25.3 | 23.5 | 55.3 | 4,205 | 3,458 | 373 | 5.3 | 4.9 7.0 | 11.9 |
| West Virginia | 6,149 | 5,559 | 581 6.007 | 27.7 | 26.2 | 71.3 | 1,599 | 1,489 | 101 | 7.2 5.0 | 7.0 5.0 | 12.4 13.4 |
| Wisconsin | 18,444 | 11,685 | 6,007 | 26.1 | 19.3 | 82.2 50.8 | 4,193 491 | 3,046 | 982 9 | 5.9 7.3 | 5.0 7.2 | 13.4 |
| Wyoming | 1,613 | 1,423 | 33 | 24.0 | 22.5 | 50.8 | 491 | 457 | 9 | 7.3 | 7.2 | - |

¹For 44 States and the District of Columbia, marital status of mother is reported on the birth certificate; for 6 States, mother's marital status is inferred; see Technical notes. ²Less than 2,500 grams (5 lb 8 oz). ³Includes races other than white and black.

Table 17. Birth rates by age and race of father: United States, 1980-92

[Rates are live births per 1,000 men in specified group, enumerated as of April 1 for 1980 and 1990 and estimated as of July 1 for all other years. Figures for age of father not stated are distributed]

| | Age of father | | | | | | | | | | |
|-------------------------|-----------------------------|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------------|--|
| Year and race of father | 15–54 years ¹ | 15–19 years ² | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–44 years | 45–49 years | 50–54 years | 55 years and over | |
| All races ³ | | | | | | | | | | | |
| 1992 | 55.8 | 24.6 | 87.7 | 113.1 | 94.2 | 51.3 | 20.4 | 7.3 | 2.7 | 0.4 | |
| 1991 | 57.1 | 24.8 | 88.0 | 114.7 | 95.1 | 51.8 | 20.2 | 7.5 | 2.7 | 0.4 | |
| 1990 | 58.4 | 23.5 | 88.0 | 116.4 | 97.8 | 53.0 | 21.0 | 7.5 | 2.8 | 0.4 | |
| 1989 | 57.2 | 21.9 | 85.4 | 114.3 | 94.8 | 51.4 | 20.4 | 7.4 | 2.7 | 0.6 | |
| 1988 | 55.8 | 19.6 | 82.4 | 111.6 | 93.2 | 49.9 | 19.9 | 7.1 | 2.7 | 0.4 | |
| 1987 | 55.0 | 18.3 | 80.5 | 109.9 | 91.2 | 48.6 | 19.0 | 6.9 | 2.6 | 0.4 | |
| 1986 | 54.8 | 17.9 | 80.3 | 109.6 | 90.3 | 46.8 | 18.3 | 6.7 | 2.6 | 0.4 | |
| 1985 | 55.6 | 18.0 | 81.2 | 112.3 | 91.1 | 47.3 | 18.1 | 6.6 | 2.5 | 0.4 | |
| 1984 ⁴ | 55.0 | 17.8 | 80.7 | 111.4 | 89.9 | 46.0 | 17.8 | 6.3 | 2.4 | 0.4 | |
| 1983 4 | 55.1 | 18.2 | 82.6 | 113.0 | 89.1 | 45.2 | 17.4 | 6.4 | 2.3 | 0.4 | |
| 1982 4 | 56.4 | 18.6 | 86.5 | 117.3 | 90.3 | 44.5 | 17.5 | 6.4 | 2.3 | 0.4 | |
| 1981 4 | 56.3 | 18.4 | 88.4 | 119.1 | 88.7 | 43.3 | 17.0 | 6.2 | 2.3 | 0.4 | |
| 1980 ⁴ | 57.0 | 18.8 | 92.0 | 123.1 | 91.0 | 42.8 | 17.1 | 6.1 | 2.2 | 0.3 | |
| White | | | | | | | | | | | |
| 1992 | 52.2 | 18.9 | 78.2 | 110.1 | 93.2 | 49.3 | 18.8 | 6.4 | 2.2 | 0.3 | |
| 1991 | 53.3 | 19.1 | 78.4 | 111.5 | 93.6 | 49.7 | 18.5 | 6.5 | 2.2 | 0.3 | |
| 1990 | 54.6 | 18.1 | 78.3 | 113.2 | 96.1 | 50.9 | 19.2 | 6.5 | 2.2 | 0.3 | |
| 1989 | 53.3 | 16.7 | 75.9 | 110.8 | 93.0 | 49.1 | 18.7 | 6.3 | 2.1 | 0.4 | |
| 1988 | 52.2 | 14.8 | 73.7 | 108.3 | 91.2 | 47.6 | 18.1 | 6.1 | 2.1 | 0.3 | |
| 1987 | 51.6 | 13.9 | 72.8 | 107.0 | 89.5 | 46.2 | 17.3 | 5.9 | 2.0 | 0.3 | |
| 1986 | 51.7 | 13.8 | 73.3 | 107.0 | 88.7 | 44.4 | 16.6 | 5.7 | 2.0 | 0.3 | |
| 1985 | 52.6 | 14.0 | 74.7 | 109.9 | 89.5 | 44.8 | 16.3 | 5.6 | 1.9 | 0.3 | |
| 1984 ⁴ | 51.8 | 14.0 | 74.3 | 108.8 | 87.9 | 43.5 | 16.0 | 5.3 | 1.9 | 0.3 | |
| 19834 | 52.0 | 14.4 | 76.3 | 110.2 | 86.8 | 42.6 | 15.5 | 5.3 | 1.8 | 0.3 | |
| 1982 ⁴ | 53.1 | 14.4 | 80.1 | 114.2 | 87.5 | 41.7 | 15.6 | 5.3 | 1.9 | 0.3 | |
| 1982 · | 52.9 | 15.0 | 81.7 | 114.2 | 85.8 | 40.3 | 15.0 | 5.3 5.2 | 1.8 | 0.3 | |
| 1980 ⁴ | 53.4 | 15.4 | 84.9 | 119.4 | 87.8 | 40.3 39.7 | 15.0 | 5.2 5.1 | 1.8 | 0.3 | |
| Black | 00 | | 00 | | 00 | 00 | .0.0 | 0 | | 0.0 | |
| 1992 | 81.0 | 57.4 | 150.0 | 140.1 | 06.0 | 56.9 | 20.4 | 13.9 | 6.2 | 1.4 | |
| | 83.4 | | 158.0 158.5 | 140.1 | 96.8 100.1 | | 28.4 29.4 | 14.2 | 6.2 6.7 | 1.4 | |
| 1991 | 83.4 84.9 | 58.0 | | | 100.1 | 58.8 | | | | | |
| 1990 | | 55.2 | 158.2 | 144.9 | | 60.4 | 31.1 | 15.0 | 7.1 | 1.4 | |
| 1989 | 84.1 | 52.9 | 153.4 | 143.5 | 101.4 | 59.9 | 31.1 | 14.9 | 6.9 | 2.7 | |
| 1988 | 80.7 | 48.1 | 144.1 | 137.9 | 100.0 | 58.0 | 30.6 | 14.3 | 6.9 | 1.4 | |
| 1987 | 78.3 | 44.6 | 136.1 | 133.9 | 97.4 | 58.0 | 30.0 | 13.8 | 6.6 | 1.3 | |
| 1986 | 77.2 | 42.6 | 131.4 | 131.6 | 97.4 | 58.0 | 29.1 | 13.5 | 6.7 | 1.3 | |
| 1985 | 77.2 | 41.8 | 129.5 | 132.7 | 97.3 | 59.4 | 29.5 | 13.3 | 6.5 | 1.2 | |
| 1984 ⁴ | 76.7 | 40.9 | 128.0 | 132.2 | 98.3 | 58.4 | 29.3 | 13.3 | 6.1 | 1.2 | |
| 19834 | 77.2 | 40.7 | 129.1 | 134.4 | 99.0 | 59.6 | 29.6 | 13.5 | 6.0 | 1.2 | |
| 19824 | 79.5 | 40.3 | 133.4 | 141.2 | 103.6 | 61.1 | 29.6 | 13.9 | 6.0 | 1.2 | |
| 1981 4 | 80.4 | 38.9 | 138.4 | 145.6 | 104.3 | 61.3 | 29.7 | 13.3 | 5.7 | 1.2 | |
| 1980 4 | 83.0 | 40.1 | 145.3 | 152.8 | 109.6 | 62.0 | 31.2 | 13.6 | 5.9 | 1.1 | |

Rates computed by relating total births, regardless of age of father, to men aged 15–54 years.

Rates computed by relating births of fathers under 20 years of age to men aged 15–19 years.

Includes races other than white and black.

Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

Table 18. Live births by educational attainment of mother, by age and race of mother: United States, 1992

| | | | | Years of school con | npleted by mother | | |
|------------------------|-----------|----------------|---------------|---------------------|-------------------|---------------------|----------------|
| Age and race of mother | Total | 0–8 years | 9–11 years | 12 years | 13–15 years | 16 years or more | Not stated |
| All races ¹ | | | | | | | |
| All ages | 4,065,014 | 259,238 | 683,287 | 1,468,019 | 834,965 | 754,963 | 64,542 |
| Under 15 years | 12,220 | 9,234 | 2,411 | _ | _ | _ | 575 |
| 15–19 years | 505,415 | 52,889 | 269.593 | 153.661 | 20,015 | _ | 9.257 |
| 15 years | 29,267 | 10,202 | 18,115 | _ | _ | _ | 950 |
| 16 years | 60,136 | 9,270 | 47,992 | 1,673 | _ | _ | 1,201 |
| 17 years | 98,146 | 9,388 | 73,119 | 13,519 | 286 | _ | 1,834 |
| 18 years | 138,663 | 10,981 | 68,477 | 53,445 | 3,456 | _ | 2.304 |
| 19 years | 179,203 | 13,048 | 61,890 | 85,024 | 16,273 | _ | 2,968 |
| 20–24 years | 1,070,490 | 70,776 | 224,399 | 500,201 | 214,541 | 44,440 | 16,133 |
| 25–29 years | 1,179,264 | 59,409 | 111,472 | 440,663 | 298,458 | 251,936 | 17,326 |
| 30–34 years | 895,271 | 40,765 | 53,717 | 269,541 | 212,971 | 304,338 | 13,939 |
| 35–39 years | 344,644 | 20,552 | 18,508 | 90,258 | 77,351 | 131,992 | 5,983 |
| 40 years and over | 57,710 | 5,613 | 3,187 | 13,695 | 11,629 | 22,257 | 1,329 |
| • | 07,710 | 3,010 | 3,107 | 10,000 | 11,020 | 22,201 | 1,020 |
| White | 0.004.070 | 040.004 | 40.4.00.4 | 4 400 044 | 000 007 | 054.504 | 44.005 |
| All ages | 3,201,678 | 218,804 | 484,604 | 1,132,244 | 666,637 | 654,504 | 44,885 |
| Under 15 years | 5,367 | 4,083 | 1,032 | - | _ | _ | 252 |
| 15–19 years | 342,739 | 42,053 | 177,118 | 104,493 | 13,281 | - | 5,794 |
| 15 years | 15,966 | 6,005 | 9,468 | - | _ | _ | 493 |
| 16 years | 37,256 | 6,811 | 28,771 | 999 | _ | _ | 675 |
| 17 years | 65,564 | 7,919 | 47,436 | 8,860 | 210 | - | 1,139 |
| 18 years | 95,949 | 9,625 | 46,975 | 35,667 | 2,191 | _ | 1,491 |
| 19 years | 128,004 | 11,693 | 44,468 | 58,967 | 10,880 | _ | 1,996 |
| 20-24 years | 814,422 | 63,254 | 169,061 | 373,498 | 161,673 | 36,000 | 10,936 |
| 25–29 years | 964,586 | 52,524 | 84,354 | 353,897 | 243,304 | 218,135 | 12,372 |
| 30–34 years | 745,510 | 35,335 | 38,285 | 218,873 | 176,132 | 266,682 | 10,203 |
| 35–39 years | 282,617 | 17,147 | 12,589 | 71,092 | 62,938 | 114,455 | 4,396 |
| 40 years and over | 46,437 | 4,408 | 2,165 | 10,391 | 9,309 | 19,232 | 932 |
| Black | | | | | | | |
| All ages | 673,633 | 23,551 | 174,010 | 278,582 | 132,016 | 51,202 | 14,272 |
| Under 15 years | 6,448 | 4,855 | 1,293 | _ | _ | _ | 300 |
| 15–19 years | 146,800 | 9,204 | 84,369 | 44,238 | 5,997 | _ | 2,992 |
| 15 years | 12,432 | 3,939 | 8,068 | | 0,007 | _ | 425 |
| 16 years | 20,970 | 2,210 | 17,677 | 616 | | _ | 467 |
| 17 years | 29,600 | 1,208 | 23,516 | 4,214 | 63 | _ | 599 |
| 18 years | 38,362 | 988 | 19,530 | 16,040 | 1,104 | _ | 700 |
| | 45,436 | 859 | 15,578 | 23,368 | 4,830 | _ | 801 |
| 19 years | 216,057 | 3,433 | 48,231 | 109,942 | 44,675 | 5,852 | 3,924 |
| 25–29 years | 157,960 | 2,511 | 22,396 | 69,549 | 42,708 | 17,367 | 3,429 |
| • | | 2,511 1,976 | | 38,395 | 42,708 27,103 | 18,056 | 3,429 2,476 |
| 30–34 years | 100,339 | , | 12,333 | , | , | , | 2,476 956 |
| 35–39 years | 39,389 | 1,255 | 4,635 | 14,088 | 9,973 | 8,482 | |
| 40 years and over | 6,640 | 317 | 753 | 2,370 | 1,560 | 1,445 | 195 |

¹Includes races other than white and black.

Table 19. Number of live births and percent distribution by weight gain during pregnancy and median weight gain, according to period of gestation and race of mother: Total of 49 reporting States and the District of Columbia, 1992

| | | | | | Wei | ght gain du | ıring pregna | ancy | | | |
|--|----------------------|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|--------------------|--------------------------|
| Period of gestation ¹ and race of mother | All births | Less than 16 pounds | 16–20 pounds | 21–25 pounds | 26–30 pounds | 31–35 pounds | 36–40 pounds | 41–45 pounds | 46 pounds or more | Not stated | Median weight gain |
| All gestational periods ² | | | | | Num | ber | | | | | Pounds |
| All races ³ | 3,463,284 | 295,378 | 325,628 | 453,707 | 607,884 | 450,797 | 391,305 | 200,164 | 317,914 | 420,507 | |
| WhiteBlack | 2,709,191 627,124 | 200,993 82,256 | 238,228 73,432 | 357,654 78,217 | 493,891 91,633 | 376,647 58,797 | 323,416 55,348 | 166,779 27,561 | 255,873 53,681 | 295,710 106,199 | |
| Under 37 weeks | | | | | | | | | | | |
| All races ³ | 373,834 | 54,485 | 47,417 | 49,564 | 55,592 | 35,779 | 30,153 | 14,894 | 25,952 | 59,998 | |
| WhiteBlack | 245,207 115,404 | 29,881 22,643 | 29,414 16,224 | 34,020 13,750 | 39,125 14,482 | 26,595 7,919 | 22,086 7,177 | 11,132 3,333 | 18,773 6,544 | 34,181 23,332 | |
| 37–39 weeks | | | | | | | | | | | |
| All races ³ | 1,457,420 | 121,493 | 141,394 | 201,480 | 266,331 | 192,680 | 162,897 | 81,021 | 123,053 | 167,071 | |
| WhiteBlack | 1,134,983 264,706 | 83,292 32,882 | 103,522 31,238 | 157,899 35,022 | 215,045 40,624 | 159,648 25,892 | 133,071 24,183 | 66,693 11,845 | 97,766 21,923 | 118,047 41,097 | |
| 40 weeks and over | | | | | | | | | | | |
| All races ³ | 1,614,087 | 118,373 | 136,025 | 201,781 | 284,761 | 221,560 | 197,578 | 103,937 | 168,363 | 181,709 | |
| WhiteBlack | 1,317,169 241,830 | 87,182 26,395 | 104,788 25,727 | 165,132 29,221 | 238,784 36,326 | 189,767 24,880 | 167,751 23,871 | 88,703 12,335 | 138,917 25,106 | 136,145 37,969 | |
| All gestation periods ² | | | | | Perce | ent distribut | tion | | | | |
| All races ³ | 100.0 | 9.7 | 10.7 | 14.9 | 20.0 | 14.8 | 12.9 | 6.6 | 10.4 | | 30.5 |
| WhiteBlack | 100.0 100.0 | 8.3 15.8 | 9.9 14.1 | 14.8 15.0 | 20.5 17.6 | 15.6 11.3 | 13.4 10.6 | 6.9 5.3 | 10.6 10.3 | | 30.7 28.6 |
| Under 37 weeks | | | | | | | | | | | |
| All races ³ | 100.0 | 17.4 | 15.1 | 15.8 | 17.7 | 11.4 | 9.6 | 4.7 | 8.3 | | 26.8 |
| White | 100.0 100.0 | 14.2 24.6 | 13.9 17.6 | 16.1 14.9 | 18.5 15.7 | 12.6 8.6 | 10.5 7.8 | 5.3 3.6 | 8.9 7.1 | | 28.4 25.0 |
| 37-39 weeks | | | | | | | | | | | |
| All races ³ | 100.0 | 9.4 | 11.0 | 15.6 | 20.6 | 14.9 | 12.6 | 6.3 | 9.5 | | 30.4 |
| WhiteBlack | 100.0 100.0 | 8.2 14.7 | 10.2 14.0 | 15.5 15.7 | 21.1 18.2 | 15.7 11.6 | 13.1 10.8 | 6.6 5.3 | 9.6 9.8 | | 30.6 28.7 |
| 40 weeks and over | | | | | | | | | | | |
| All races ³ | 100.0 | 8.3 | 9.5 | 14.1 | 19.9 | 15.5 | 13.8 | 7.3 | 11.8 | | 30.9 |
| WhiteBlack | 100.0 100.0 | 7.4 12.9 | 8.9 12.6 | 14.0 14.3 | 20.2 17.8 | 16.1 12.2 | 14.2 11.7 | 7.5 6.1 | 11.8 12.3 | | 31.0 30.3 |

NOTE: Excludes data for California, which did not require reporting of weight gain during pregnancy.

¹Expressed in completed weeks.
2Includes births with period of gestation not stated.
3Includes races other than white and black.

Table 20. Percent low birthweight by weight gain during pregnancy, period of gestation, and race of mother: Total of 49 reporting States and the District of Columbia, 1992

[Low birthweight is defined as weight of less than 2,500 grams (5lb 8 oz)]

| | | | | | Weight g | ain during pr | egnancy | | | |
|---|--------------|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|---------------|
| Period of gestation ¹ and race of mother | Total | Less than 16 pounds | 16–20 pounds | 21–25 pounds | 26–30 pounds | 31–35 pounds | 36–40 pounds | 41–45 pounds | 46 pounds or more | Not stated |
| All gestational periods ² | | | | | | | | | | |
| All races ³ | 7.3 | 15.3 | 10.9 | 7.3 | 5.6 | 4.4 | 4.2 | 4.1 | 4.4 | 10.9 |
| White | 5.9 13.4 | 12.2 23.4 | 9.2 16.8 | 6.3 12.2 | 4.7 10.1 | 3.9 8.2 | 3.7 7.4 | 3.6 6.7 | 3.9 6.6 | 8.4 18.0 |
| Under 37 weeks | | | | | | | | | | |
| All races ³ | 42.4 | 58.1 | 48.5 | 40.2 | 35.4 | 31.8 | 31.9 | 31.5 | 32.2 | 50.3 |
| WhiteBlack | 40.6 47.0 | 57.2 60.5 | 47.9 50.3 | 39.7 42.2 | 34.7 37.9 | 31.2 34.5 | 31.9 32.9 | 31.6 32.2 | 32.9 31.2 | 47.7 55.1 |
| 37-39 weeks | | | | | | | | | | |
| All races ³ | 4.5 | 7.8 | 6.4 | 4.8 | 3.8 | 3.3 | 3.1 | 3.1 | 3.2 | 5.9 |
| WhiteBlack | 3.8 7.6 | 6.4 11.7 | 5.5 9.4 | 4.2 7.5 | 3.3 6.5 | 2.9 5.7 | 2.8 5.0 | 2.9 4.5 | 2.9 4.6 | 4.7 9.3 |
| 40 weeks and over | | | | | | | | | | |
| All races ³ | 1.6 | 3.4 | 2.5 | 1.8 | 1.4 | 1.0 | 0.9 | 0.9 | 1.0 | 2.4 |
| White | 1.2 3.6 | 2.5 6.3 | 2.0 4.7 | 1.5 3.6 | 1.1 3.0 | 0.9 2.3 | 0.8 2.2 | 0.7 1.9 | 0.8 1.9 | 1.7 4.7 |

NOTE: Excludes data for California, which did not require reporting of weight gain during pregnancy.

¹Expressed in completed weeks. ²Includes births with period of gestation not stated. ³Includes races other than white and black.

Table 21. Number of live births and percent distribution by weight gain during pregnancy and median weight gain, according to period of gestation, Hispanic origin of mother, and race of mother for mothers of non-Hispanic origin: Total of 48 reporting States and the District of Columbia, 1992

| | | | | | We | eight gain d | luring pregr | ancy | | | |
|--|-----------------|-------|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|--------------------------|
| Period of gestation ¹ and race of mother | All births | Total | Less than 16 pounds | 16–20 pounds | 21–25 pounds | 26–30 pounds | 31–35 pounds | 36–40 pounds | 41–45 pounds | 46 pounds or more | Median weight gain |
| All gestational periods ² | Number | | | | Pei | rcent distrib | oution | | | | Pounds |
| All origins ³ | 3,447,294 | 100.0 | 9.7 | 10.7 | 14.9 | 20.0 | 14.8 | 12.9 | 6.6 | 10.4 | 30.5 |
| Hispanic | 379,746 | 100.0 | 11.9 | 12.9 | 15.4 | 19.5 | 13.5 | 11.6 | 6.0 | 9.3 | 29.9 |
| Mexican | 209.987 | 100.0 | 13.0 | 13.8 | 15.7 | 18.9 | 13.1 | 11.1 | 5.8 | 8.6 | 28.8 |
| Puerto Rican | 57,459 | 100.0 | 11.3 | 12.2 | 15.1 | 18.8 | 13.4 | 11.8 | 6.3 | 11.1 | 30.2 |
| Cuban | 10,622 | 100.0 | 7.1 | 8.8 | 12.5 | 21.8 | 15.1 | 15.0 | 7.2 | 12.5 | 31.0 |
| Central and South American | 58,790 | 100.0 | 10.4 | 12.6 | 15.4 | 21.4 | 13.8 | 12.3 | 5.7 | 8.5 | 30.1 |
| Other and unknown Hispanic | 42,888 | 100.0 | 10.9 | 11.6 | 15.0 | 19.5 | 14.4 | 11.8 | 6.5 | 10.3 | 30.3 |
| Non-Hispanic ⁴ | 3,031,339 | 100.0 | 9.5 | 10.5 | 14.9 | 20.0 | 14.9 | 13.0 | 6.6 | 10.6 | 30.5 |
| White | 2,298,955 | 100.0 | 7.9 | 9.5 | 14.7 | 20.6 | 15.9 | 13.6 | 7.0 | 10.8 | 30.7 |
| Black | 611,940 | 100.0 | 15.9 | 14.1 | 15.0 | 17.5 | 11.3 | 10.6 | 5.3 | 10.3 | 28.5 |
| Under 37 weeks | | | | | | | | | | | |
| All origins ³ | 372,664 | 100.0 | 17.4 | 15.1 | 15.8 | 17.7 | 11.4 | 9.6 | 4.7 | 8.3 | 26.8 |
| Hispanic | 42,091 | 100.0 | 18.1 | 16.2 | 15.6 | 17.9 | 11.1 | 9.0 | 4.7 | 7.3 | 26.0 |
| Mexican | 22,621 | 100.0 | 19.0 | 16.7 | 15.5 | 17.1 | 10.9 | 9.2 | 4.8 | 6.9 | 25.8 |
| Puerto Rican | 7,538 | 100.0 | 18.1 | 16.3 | 16.0 | 16.9 | 11.2 | 8.8 | 4.5 | 8.2 | 25.9 |
| Cuban | 1,076 | 100.0 | 13.8 | 12.3 | 12.7 | 20.9 | 11.5 | 11.1 | 6.3 | 11.3 | 30.2 |
| Central and South American | 5,992 | 100.0 | 17.1 | 16.7 | 16.1 | 20.4 | 11.0 | 8.6 | 4.0 | 6.1 | 26.1 |
| Other and unknown Hispanic | 4,864 | 100.0 | 16.9 | 14.8 | 15.7 | 19.1 | 11.6 | 8.9 | 4.9 | 8.2 | 26.9 |
| Non-Hispanic ⁴ | 326,865 | 100.0 | 17.3 | 15.0 | 15.8 | 17.7 | 11.4 | 9.7 | 4.8 | 8.4 | 26.9 |
| White | 201,089 | 100.0 | 13.5 | 13.6 | 16.2 | 18.6 | 12.8 | 10.7 | 5.4 | 9.2 | 28.7 |
| Black | 113,315 | 100.0 | 24.6 | 17.6 | 14.9 | 15.7 | 8.6 | 7.8 | 3.6 | 7.1 | 24.9 |
| 37-39 weeks | | | | | | | | | | | |
| All origins ³ | 1,450,935 | 100.0 | 9.4 | 11.0 | 15.6 | 20.6 | 14.9 | 12.6 | 6.3 | 9.5 | 30.4 |
| Hispanic | 164,140 | 100.0 | 11.6 | 13.2 | 15.9 | 20.0 | 13.6 | 11.4 | 5.7 | 8.6 | 29.5 |
| Mexican | 90,856 | 100.0 | 12.8 | 14.1 | 16.2 | 19.4 | 13.2 | 10.9 | 5.5 | 7.9 | 28.5 |
| Puerto Rican | 24,680 | 100.0 | 10.8 | 12.3 | 15.7 | 19.8 | 13.5 | 11.8 | 5.9 | 10.3 | 30.2 |
| Cuban | 4,795 | 100.0 | 6.7 | 9.1 | 13.4 | 22.8 | 15.2 | 14.9 | 6.8 | 11.1 | 30.8 |
| Central and South American | 25,283 | 100.0 | 10.1 | 12.8 | 15.5 | 22.2 | 14.2 | 12.2 | 5.2 | 7.9 | 30.1 |
| Other and unknown Hispanic | 18,526 | 100.0 | 10.8 | 12.1 | 15.7 | 19.3 | 14.6 | 11.3 | 6.7 | 9.5 | 30.1 |
| Non-Hispanic ⁴ | 1,272,664 | 100.0 | 9.2 | 10.7 | 15.6 | 20.7 | 15.1 | 12.7 | 6.3 | 9.6 | 30.4 |
| White | 959,307 | 100.0 | 7.7 | 9.8 | 15.5 | 21.3 | 16.0 | 13.3 | 6.7 | 9.8 | 30.6 |
| Black | 258,401 | 100.0 | 14.8 | 14.0 | 15.7 | 18.1 | 11.6 | 10.8 | 5.3 | 9.8 | 28.6 |
| 40 weeks and over | | | | | | | | | | | |
| All origins ³ | 1,605,785 | 100.0 | 8.3 | 9.5 | 14.1 | 19.9 | 15.5 | 13.8 | 7.3 | 11.8 | 30.8 |
| Hispanic | 170,851 | 100.0 | 10.7 | 11.9 | 14.8 | 19.3 | 13.9 | 12.4 | 6.6 | 10.5 | 30.3 |
| · | | | | | | | | | | | |
| Mexican | 95,483 | 100.0 | 11.9 | 12.9 | 15.2 | 18.8 | 13.5 | 11.7 | 6.3 | 9.7 | 30.0 |
| | 24,385 | 100.0 | 10.0 | 10.9 | 14.4 11.5 | 18.5 | 13.8 | 12.6 | 7.1 7.0 | 12.7 | 30.6 |
| Cuban | 4,734 27 134 | 100.0 | 6.1 9.4 | 7.8 11.5 | 11.5 15.1 | 21.0 | 15.8 14.0 | 15.9 13.2 | 7.9 6.5 | 14.1 | 32.6 30.4 |
| Central and South American Other and unknown Hispanic | 27,134 | 100.0 | 9.4 | 11.5 | 15.1 | 20.8 | 14.0 | 13.2 | 6.5 | 9.6 11.7 | 30.4 |
| • | 19,115 | 100.0 | 9.5 | 10.3 | 14.1 | 19.7 | 14.9 | 12.9 | 6.8 | 11.7 | 30.6 |
| Non-Hispanic ⁴ | 1,418,081 | 100.0 | 8.0 | 9.3 | 14.0 | 19.9 | 15.6 | 13.9 | 7.3 | 11.9 | 30.9 |
| White | 1,130,350 | 100.0 | 7.0 | 8.5 | 13.9 | 20.3 | 16.3 | 14.4 | 7.6 | 11.9 | 31.1 |
| Black | 235,504 | 100.0 | 13.0 | 12.7 | 14.4 | 17.8 | 12.2 | 11.7 | 6.0 | 12.3 | 30.2 |

¹Expressed in completed weeks.

NOTE: Excludes data for California and New Hampshire, which did not require reporting of either weight gain during pregnancy or Hispanic origin of mother.

²Includes births with period of gestation not stated.

³Includes origin not stated.

⁴Includes races other than white and black.

Table 22. Percent low birthweight by weight gain during pregnancy and Hispanic origin of mother, and by race of mother for mothers of non-Hispanic origin: Total of 48 reporting States and the District of Columbia, 1992

[Low birthweight is defined as weight of less than 2,500 grams (5 lb 8 oz)]

| | | Weight gain during pregnancy | | | | | | | | | | | | |
|----------------------------|-------|------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|---------------|--|--|--|--|
| Origin of mother | Total | Less than 16 pounds | 16–20 pounds | 21–25 pounds | 26–30 pounds | 31–35 pounds | 36–40 pounds | 41–45 pounds | 46 pounds or more | Not stated | | | | |
| All origins ¹ | 7.3 | 15.3 | 10.9 | 7.3 | 5.6 | 4.4 | 4.2 | 4.1 | 4.4 | 10.9 | | | | |
| Hispanic | 6.7 | 11.8 | 8.4 | 6.3 | 5.1 | 4.3 | 4.0 | 3.8 | 3.8 | 8.6 | | | | |
| Mexican | 6.0 | 10.1 | 7.4 | 5.6 | 4.5 | 3.8 | 3.7 | 3.8 | 3.6 | 7.5 | | | | |
| Puerto Rican | 9.2 | 17.8 | 11.6 | 8.7 | 7.0 | 5.5 | 5.1 | 3.9 | 4.5 | 12.9 | | | | |
| Cuban | 6.2 | 15.3 | 9.7 | 6.2 | 4.7 | 5.0 | 3.9 | 4.4 | 3.4 | 12.3 | | | | |
| Central and South American | 5.9 | 10.7 | 7.4 | 5.5 | 4.9 | 4.0 | 3.4 | 3.0 | 3.5 | 7.9 | | | | |
| Other and unknown Hispanic | 7.5 | 14.1 | 10.2 | 7.2 | 6.0 | 4.9 | 4.4 | 4.3 | 4.4 | 9.6 | | | | |
| Non-Hispanic ² | 7.4 | 15.8 | 11.2 | 7.4 | 5.6 | 4.5 | 4.3 | 4.1 | 4.4 | 11.5 | | | | |
| White | 5.8 | 12.3 | 9.4 | 6.3 | 4.7 | 3.8 | 3.7 | 3.6 | 4.0 | 8.3 | | | | |
| Black | 13.4 | 23.5 | 16.9 | 12.3 | 10.2 | 8.3 | 7.5 | 6.7 | 6.6 | 18.2 | | | | |

¹Includes origin not stated.

NOTE: Excludes data for California and New Hampshire, which did not require reporting of either weight gain during pregnancy or Hispanic origin of mother.

Table 23. Percent of births with selected medical or health characteristics, by specified race of mother: United States, 1992

| | | | | | | | Asian or Pa | cific Islander | | |
|--|--------------|-------|-------|---------------------------------|-------|---------|-------------|----------------|----------|-------|
| Characteristic | All races | White | Black | American Indian ¹ | Total | Chinese | Japanese | Hawaiian | Filipino | Other |
| Mother | | | | | | | | | | |
| Prenatal care beginning in the first trimester | 77.7 | 80.8 | 63.9 | 62.1 | 76.6 | 83.8 | 88.2 | 69.9 | 78.7 | 72.8 |
| Third trimester or no prenatal care | 5.2 | 4.2 | 9.9 | 11.0 | 4.9 | 2.9 | 2.4 | 7.0 | 4.3 | 5.9 |
| Smoker ² | 16.9 | 17.9 | 13.8 | 22.5 | 4.8 | 1.7 | 6.6 | 18.5 | 4.8 | 3.6 |
| Drinker ³ | 2.6 | 2.4 | 3.3 | 6.6 | 1.0 | 1.2 | 1.5 | 2.7 | 0.7 | 0.8 |
| Weight gain of less than 16 lbs ⁴ | 9.7 | 8.3 | 15.8 | 14.0 | 10.0 | 7.0 | 9.3 | 8.9 | 8.0 | 11.5 |
| Cesarean delivery rate | 22.3 | 22.5 | 22.1 | 17.9 | 19.8 | 20.8 | 19.5 | 18.0 | 24.3 | 18.0 |
| Infant | | | | | | | | | | |
| Preterm births ⁵ | 10.7 | 9.1 | 18.4 | 11.6 | 9.9 | 7.0 | 7.9 | 11.4 | 10.9 | 10.5 |
| Very low birthweight 6 | 1.3 | 1.0 | 3.0 | 1.0 | 0.9 | 0.7 | 0.8 | 1.0 | 1.1 | 0.9 |
| Low birthweight 7 | 7.1 | 5.8 | 13.3 | 6.2 | 6.6 | 5.0 | 7.0 | 6.9 | 7.4 | 6.7 |
| 4,000 grams or more 8 | 10.7 | 12.1 | 5.3 | 12.3 | 6.1 | 6.2 | 5.1 | 9.0 | 6.3 | 5.9 |
| 5-minute Apgar score of less than 7 ⁹ | 1.5 | 1.2 | 2.6 | 1.4 | 1.1 | 0.9 | 0.8 | 1.0 | 1.1 | 1.1 |
| 1-minute Apgar score of less than 7 ⁹ | 8.5 | 7.9 | 11.0 | 8.8 | 6.4 | 4.8 | 4.9 | 6.8 | 7.5 | 6.6 |

¹Includes births to Aleuts and Eskimos.

²Includes races other than white and black.

²Excludes data from California, Indiana, New York, and South Dakota, which did not require reporting of tobacco use. ³Excludes data from California, New York, and South Dakota, which did not require reporting of alcohol use.

Excludes data from California, New York, and South Dakota, which did not red Excludes data from California, which did not require reporting of weight gain. Born prior to 37 completed weeks of gestation. Birthweight of less than 1,500 grams (3 lb 4 oz) or more.

⁷Birthweight of less than 2,500 grams (5 lb 8 oz).

⁸Equivalent to 8 lb 14 oz or more.

⁹Excludes data for California and Texas, which did not require reporting of either 1- or 5-minute Apgar score.

Table 24. Percent of births with selected medical or health characteristics, by Hispanic origin of mother and by race of mother for mothers of non-Hispanic origin: Total of 49 reporting States and the District of Columbia, 1992

| | | | | | | Origin of moth | er | | | |
|--|-----------------------------|-------|---------|-----------------|----------|----------------------------------|----------------------------------|--------------------|-----------|-------|
| | | | | | Hispanic | | | N | on-Hispan | nic |
| Characteristic | AII origins ¹ | Total | Mexican | Puerto Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ² | White | Black |
| Mother | | | | | | | | | | |
| Prenatal care beginning in the first trimester | 77.7 | 64.2 | 62.1 | 67.8 | 86.8 | 66.8 | 68.0 | 80.3 | 84.9 | 64.0 |
| Third trimester or no prenatal care | 5.2 | 9.5 | 10.5 | 8.0 | 2.1 | 7.9 | 7.5 | 4.4 | 2.8 | 9.8 |
| Smoker ³ | 16.9 | 5.8 | 4.3 | 12.7 | 5.9 | 2.6 | 10.1 | 18.2 | 19.7 | 13.8 |
| Drinker ⁴ | 2.6 | 1.2 | 1.0 | 2.6 | 0.9 | 0.8 | 2.0 | 2.7 | 2.5 | 3.3 |
| Weight gain of less than 16 lbs ⁵ | 9.7 | 11.9 | 13.0 | 11.3 | 7.1 | 10.4 | 10.9 | 9.5 | 7.9 | 15.9 |
| Cesarean delivery rate | 22.3 | 21.2 | 20.5 | 21.9 | 33.9 | 22.1 | 22.5 | 22.5 | 22.8 | 22.2 |
| Infant | | | | | | | | | | |
| Preterm births ⁶ | 10.7 | 10.7 | 10.4 | 13.2 | 10.0 | 10.5 | 11.2 | 10.7 | 8.7 | 18.5 |
| Very low birthweight ⁷ | 1.3 | 1.0 | 0.9 | 1.7 | 1.2 | 1.0 | 1.1 | 1.3 | 0.9 | 3.0 |
| Low birthweight ⁸ | 7.1 | 6.1 | 5.6 | 9.2 | 6.1 | 5.8 | 7.2 | 7.3 | 5.7 | 13.4 |
| 4,000 grams or more 9 | 10.7 | 9.3 | 9.7 | 7.1 | 10.2 | 9.4 | 7.9 | 11.0 | 12.7 | 5.3 |
| 5-minute Apgar scores of less than 7 10 | 1.5 | 1.2 | 1.3 | 1.4 | 0.9 | 1.0 | 1.3 | 1.5 | 1.2 | 2.6 |
| 1-minute Apgar scores of less than 7 10 | 8.5 | 7.2 | 7.9 | 7.0 | 4.6 | 6.2 | 8.2 | 8.6 | 8.0 | 11.0 |

NOTE: Excludes New Hampshire, which did not require reporting of Hispanic origin of mother.

Includes origin not stated.

Includes races other than white and black.

Excludes data for California, Indiana, New York, and South Dakota, which did not require reporting of tobacco use.

Excludes data from California, New York, and South Dakota, which did not require reporting of alcohol use.

Excludes data from California, which did not require reporting of weight gain.

Born prior to 37 completed weeks of gestation.

Birthweight of less than 1,500 grams (3 lb 4 oz).

Birthweight of less than 2,500 grams (5 lb 8 oz).

Equivalent to 8 lb 14 oz or more.

Table 25. Live births with selected medical risk factors and rates by age of mother, by race of mother: United States, 1992

[Rates are number of live births with specified medical risk factor per 1,000 live births in specified group]

| | | | | | A | ge of mothe | er | | | |
|--|----------------------------|------------------------------------|-------------|-------------------|----------------|----------------|----------------|----------------|----------------|------------------|
| Medical risk factor and race of mother | All births ¹ | Medical risk factor reported | All ages | Under 20 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–49 years | Not stated |
| All races ² | Nur | nber | | | | Rate | | | | Number |
| Anemia | 4,065,014 | 71,942 | 18.3 | 26.8 | 22.0 | 15.5 | 14.2 | 14.1 | 14.8 | 123,515 |
| Cardiac disease | 4,065,014 | 15,544 | 3.9 | 2.3 | 2.9 | 4.0 | 5.2 | 5.8 | 6.4 | 123,515 |
| Acute or chronic lung disease | 4,065,014 | 16,593 | 4.2 | 5.3 | 4.3 | 3.7 | 3.9 | 4.6 | 4.9 | 123,515 |
| Diabetes | 4,065,014 | 102,253 | 25.9 | 8.9 | 16.4 | 25.6 | 35.3 | 50.6 | 69.6 | 123,515 |
| Genital herpes 3,4 | 3,588,024 | 28,747 | 8.2 | 5.6 | 7.1 | 7.9 | 9.9 | 11.6 | 10.5 | 78,494 |
| Hydramnios/Oligohydramnios ³ | 3,908,869 | 29,860 | 7.9 | 8.2 | 7.9 | 7.4 | 7.5 | 9.2 | 11.0 | 116,158 |
| Hemoglobinopathy 3 | 3,908,869 | 2,160 | 0.6 | 8.0 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 116,158 |
| Hypertension, chronic | 4,065,014 | 25,964 | 6.6 | 2.7 | 4.0 | 5.9 | 8.6 | 14.4 | 24.5 | 123,515 |
| Hypertension, pregnancy-associated | 4,065,014 | 112,419 | 28.5 | 33.4 | 28.6 | 27.3 | 26.0 | 30.4 | 37.8 | 123,515 |
| Eclampsia | 4,065,014 | 14,369 | 3.6 | 5.6 | 3.7 | 3.1 | 3.1 | 3.6 | 4.6 | 123,515 |
| Incompetent cervix ³ | 3,908,869 | 8,516 | 2.2 | 1.1 | 1.6 | 2.2 | 3.0 | 3.9 | 3.6 | 116,158 |
| Previous infant 4,000+ grams ³ | 3,908,869 | 38,793 | 10.2 | 1.6 | 6.3 | 11.0 | 15.2 | 18.4 | 21.4 | 116,158 |
| Previous preterm or small-for- | 0.000.000 | 45.070 | 44.0 | 0.4 | 44.0 | 40.0 | 40.4 | 45.0 | 47.0 | 440 450 |
| gestational-age infant ³ | 3,908,869 | 45,073 | 11.9 | 6.1 | 11.8 | 12.0 | 13.4 | 15.9 | 17.0 | 116,158 |
| Renal disease | 4,065,014 | 8,933 | 2.3 | 2.9 | 2.7 | 2.1 | 1.8 | 1.8 | 2.2 | 123,515 |
| | 4,026,987 | 24,832 | 6.4 | 4.9 | 5.9 | 6.5 | 7.1 | 7.2 | 7.1 | 124,509 |
| Uterine bleeding ⁴ | 3,744,169 | 29,159 | 8.0 | 6.1 | 7.2 | 8.0 | 9.1 | 9.6 | 10.4 | 85,870 |
| White | 3,201,678 | 47 404 | 15.2 | 22.4 | 18.2 | 12.1 | 12.7 | 12.6 | 13.1 | 05.026 |
| Anemia | | 47,424 12,924 | 15.3 4.2 | 22.4 2.2 | 3.0 | 13.1 4.2 | 5.5 | 12.6 6.0 | 6.5 | 95,836 95,836 |
| Cardiac disease | 3,201,678 3,201,678 | 12,924 | 4.2 | 4.8 | 3.9 | 3.6 | 3.8 | 4.5 | 5.3 | 95,836 |
| Diabetes | 3,201,678 | 81,610 | 26.3 | 9.9 | 17.2 | 25.5 | 34.1 | 48.2 | 66.0 | 95,836 |
| Genital herpes ^{3,4} | 2,795,677 | 23,295 | 8.5 | 4.6 | 6.7 | 8.2 | 10.7 | 13.1 | 12.2 | 57,467 |
| Hydramnios/Oligohydramnios ³ | 3,065,875 | 22,765 | 7.6 | 7.9 | 7.9 | 7.1 | 7.2 | 9.0 | 10.3 | 89,928 |
| Hemoglobinopathy ³ | 3,065,875 | 770 | 0.3 | 0.2 | 0.2 | 0.3 | 0.2 | 0.4 | * | 89,928 |
| Hypertension, chronic | 3,201,678 | 17,936 | 5.8 | 2.3 | 3.6 | 5.2 | 7.3 | 11.8 | 19.9 | 95,836 |
| Hypertension, pregnancy-associated | 3,201,678 | 90,686 | 29.2 | 34.4 | 30.2 | 28.1 | 26.2 | 30.2 | 37.2 | 95,836 |
| Eclampsia | 3,201,678 | 10,242 | 3.3 | 4.6 | 3.5 | 3.0 | 2.9 | 3.3 | 4.1 | 95,836 |
| Incompetent cervix ³ | 3,065,875 | 6,301 | 2.1 | 1.1 | 1.4 | 2.0 | 2.9 | 3.8 | 3.5 | 89,928 |
| Previous infant 4,000+ grams ³ Previous preterm or small-for- | 3,065,875 | 34,926 | 11.7 | 1.8 | 7.2 | 12.2 | 16.8 | 20.5 | 23.8 | 89,928 |
| gestational-age infant ³ | 3,065,875 | 33,763 | 11.3 | 5.5 | 10.8 | 11.2 | 13.0 | 15.6 | 16.5 | 89,928 |
| Renal disease | 3,201,678 | 7,268 | 2.3 | 3.3 | 2.8 | 2.2 | 1.8 | 1.8 | 2.2 | 95,836 |
| Rh sensitization ⁵ | 3,168,004 | 22,375 | 7.3 | 5.9 | 6.8 | 7.4 | 8.0 | 8.1 | 8.2 | 96,760 |
| Uterine bleeding ⁴ | 2,931,480 | 24,098 | 8.4 | 6.5 | 7.6 | 8.3 | 9.5 | 9.9 | 11.0 | 63,392 |
| Black | | | | | | | | | | |
| Anemia | 673,633 | 20,325 | 31.3 | 35.5 | 34.5 | 28.7 | 25.1 | 24.4 | 23.3 | 23,778 |
| Cardiac disease | 673,633 | 2,190 | 3.4 | 2.7 | 2.8 | 3.6 | 4.3 | 5.4 | 7.0 | 23,778 |
| Acute or chronic lung disease | 673,633 | 3,665 | 5.6 | 6.8 | 5.9 | 4.5 | 5.1 | 6.0 | 3.7 | 23,778 |
| Diabetes | 673,633 | 13,870 | 21.3 | 6.5 | 13.1 | 24.0 | 39.1 | 57.9 | 84.3 | 23,778 |
| Genital herpes 3,4 | 613,955 | 4,723 | 7.9 | 7.9 | 9.2 | 7.8 | 6.7 | 5.7 | 4.4 | 18,157 |
| Hydramnios/Oligohydramnios ³ | 656,971 | 5,797 | 9.1 | 8.9 | 8.1 | 9.3 | 9.8 | 12.1 | 16.4 | 22,498 |
| Hemoglobinopathy 3 | 656,971 | 1,259 | 2.0 | 2.1 | 2.0 | 2.0 | 1.8 | 1.7 | * | 22,498 |
| Hypertension, chronic | 673,633 | 7,200 | 11.1 | 3.9 | 5.8 | 11.0 | 20.4 | 36.4 | 59.9 | 23,778 |
| Hypertension, pregnancy-associated | 673,633 | 17,986 | 27.7 | 31.1 | 24.1 | 26.0 | 28.2 | 35.2 | 50.9 | 23,778 |
| Eclampsia | 673,633 | 3,587 | 5.5 | 7.8 | 4.9 | 4.3 | 4.8 | 6.2 | 8.3 | 23,778 |
| Incompetent cervix ³ | 656,971 | 1,945 | 3.1 | 1.2 | 2.4 | 3.9 | 5.0 | 5.4 | 4.5 | 22,498 |
| Previous infant 4,000+ grams ³ | 656,971 | 2,448 | 3.9 | 0.9 | 2.8 | 4.8 | 6.8 | 8.1 | 12.4 | 22,498 |
| gestational-age infant ³ | 656,971 | 9,424 | 14.9 | 7.5 | 15.5 | 17.5 | 18.5 | 19.5 | 19.3 | 22,498 |
| Renal disease | 673,633 | 1,336 | 2.1 | 2.2 | 2.3 | 1.8 | 1.8 | 1.7 | * | 23,778 |
| Rh sensitization ⁵ | 670,319 | 2,092 | 3.2 | 2.9 | 3.2 | 3.2 | 3.6 | 4.0 | 4.1 | 23,833 |
| Uterine bleeding ⁴ | 630,617 | 3,965 | 6.5 | 5.3 | 6.1 | 7.1 | 7.4 | 7.8 | 9.8 | 19,437 |

¹Total number of births to residents of areas reporting specified medical risk factor.

²Includes races other than white and black.

³New York City (but not New York State) reports this risk factor.

⁴Texas does not report this risk factor.

⁵Kansas does not report this risk factor.

Table 26. Number and rate of live births with selected medical risk factors, complications of labor, and obstetric procedures, by specified race of mother: United States, 1992

[Rates are number of live births with specified risk factors, complications, or procedures per 1,000 live births in specified group]

| | | | | | | | Asian or Paci | ific Islander | | |
|--|--------------|-----------|---------|---------------------------------|---------|---------|---------------|---------------|----------|--------|
| Medical risk factor, complication, and obstetric procedure | All races | White | Black | American Indian ¹ | Total | Chinese | Japanese | Hawaiian | Filipino | Other |
| Medical risk factors | | | | | Numb | er | | | | |
| Anemia | 71,942 | 47,424 | 20,325 | 2,189 | 2,004 | 255 | 61 | 157 | 341 | 1,190 |
| Diabetes | 102,253 | 81,610 | 13,870 | 1,686 | 5,087 | 1,022 | 283 | 175 | 1,128 | 2,479 |
| Hypertension, pregnancy-associated | 112,419 | 90,686 | 17,986 | 1,615 | 2,132 | 244 | 141 | 112 | 623 | 1,012 |
| Uterine bleeding ² | 29,159 | 24,098 | 3,965 | 346 | 750 | 115 | 61 | 13 | 158 | 403 |
| Complications of labor and/or delivery | | | | | | | | | | |
| Meconium, moderate/heavy | 240,705 | 175,207 | 55,024 | 2,516 | 7,958 | 1,253 | 317 | 347 | 1,623 | 4,418 |
| Premature rupture of membrane | 126,597 | 96,178 | 24,680 | 1,719 | 4,020 | 738 | 242 | 148 | 715 | 2,177 |
| Dysfunctional labor | 116,959 | 95,804 | 16,366 | 1,209 | 3,580 | 738 | 210 | 90 | 639 | 1,903 |
| Breech/Malpresentation | 149,063 | 123,531 | 19,068 | 1,414 | 5,050 | 862 | 362 | 229 | 997 | 2,600 |
| Cephalopelvic disproportion 3,4 | 117,118 | 95,401 | 15,887 | 958 | 4,872 | 897 | 312 | 223 | 1,228 | 2,212 |
| Fetal distress ⁴ | 153,484 | 114,623 | 32,645 | 1,446 | 4,770 | 761 | 264 | 157 | 1,063 | 2,525 |
| Obstetric procedures | | | | | | | | | | |
| Amniocentesis | 126,433 | 107,788 | 11,629 | 943 | 6,073 | 1,502 | 782 | 194 | 1,299 | 2,296 |
| Electronic fetal monitoring | 3,076,276 | 2,439,042 | 503,787 | 29,500 | 103,947 | 17,252 | 6,377 | 4,579 | 19,641 | 56,098 |
| Induction of labor | 453,093 | 384,968 | 52,371 | 4,600 | 11,154 | 2,012 | 755 | 460 | 2,032 | 5,895 |
| Ultrasound | 2,305,538 | 1,862,716 | 345,894 | 22,331 | 74,597 | 11,970 | 5,125 | 3,375 | 14,530 | 39,597 |
| Stimulation of labor | 513,161 | 416,908 | 73,998 | 4,747 | 17,508 | 3,094 | 1,177 | 728 | 3,106 | 9,403 |
| Medical risk factors | | | | | Rate |) | | | | |
| Anemia | 18.3 | 15.3 | 31.3 | 57.0 | 13.6 | 10.3 | 6.8 | 26.8 | 11.9 | 15.0 |
| Diabetes | 25.9 | 26.3 | 21.3 | 43.9 | 34.5 | 41.4 | 31.4 | 29.8 | 39.4 | 31.3 |
| Hypertension, pregnancy-associated | 28.5 | 29.2 | 27.7 | 42.1 | 14.5 | 9.9 | 15.6 | 19.1 | 21.7 | 12.8 |
| Uterine bleeding ² | 8.0 | 8.4 | 6.5 | 9.2 | 5.3 | 4.8 | 6.9 | * | 5.7 | 5.4 |
| Complications of labor and/or delivery | | | | | | | | | | |
| Meconium, moderate/heavy | 60.9 | 56.2 | 84.3 | 65.4 | 54.0 | 50.8 | 35.1 | 59.1 | 56.6 | 55.8 |
| Premature rupture of membrane | 32.0 | 30.9 | 37.8 | 44.7 | 27.3 | 29.9 | 26.8 | 25.2 | 24.9 | 27.5 |
| Dysfunctional labor | 29.6 | 30.7 | 25.1 | 31.4 | 24.3 | 29.9 | 23.3 | 15.3 | 22.3 | 24.0 |
| Breech/Malpresentation | 37.7 | 39.6 | 29.2 | 36.7 | 34.2 | 34.9 | 40.1 | 39.0 | 34.8 | 32.8 |
| Cephalopelvic disproportion 3,4 | 33.3 | 34.8 | 26.6 | 25.6 | 35.3 | 38.8 | 36.1 | 38.4 | 44.5 | 30.3 |
| Fetal distress ⁴ | 41.9 | 39.9 | 53.3 | 38.2 | 33.8 | 32.0 | 29.8 | 27.0 | 38.0 | 33.7 |
| Obstetric procedures | | | | | | | | | | |
| Amniocentesis | 31.7 | 34.3 | 17.7 | 24.4 | 41.0 | 60.6 | 86.6 | 33.0 | 45.2 | 28.8 |
| Electronic fetal monitoring | 772.5 | 777.0 | 767.6 | 762.9 | 701.9 | 696.2 | 706.0 | 780.1 | 682.8 | 704.4 |
| Induction of labor | 113.8 | 122.6 | 79.8 | 119.0 | 75.3 | 81.2 | 83.6 | 78.4 | 70.6 | 74.0 |
| Ultrasound | 579.0 | 593.4 | 527.0 | 577.5 | 503.7 | 483.0 | 567.4 | 575.0 | 505.1 | 497.2 |
| Stimulation of labor | 128.9 | 132.8 | 112.7 | 122.8 | 118.2 | 124.9 | 130.3 | 124.0 | 108.0 | 118.1 |

<sup>Includes births to Aleuts and Eskimos.
Texas does not report this risk factor.
New York City (but not New York State) reports this complication.
Texas does not report this complication.</sup>

Table 27. Number and rate of live births with selected medical risk factors, complications of labor, and obstetric procedures, by Hispanic origin of mother and by race of mother for mothers of non-Hispanic origin: Total of 49 reporting States and the District of Columbia,

[Rates are number of live births with specified risk factors, complications, or procedures per 1,000 live births in specified group]

| | | | | | | Origin of n | nother | | | |
|---|-----------------------------|---------|---------|-----------------|---------|----------------------------------|----------------------------------|--------------------|--------------|---------|
| | | | | Н | ispanic | | | 1 | Non-Hispanic | |
| Medical risk factor, complication, and obstetric procedure | All origins ¹ | Total | Mexican | Puerto Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ² | White | Black |
| Medical risk factors | | | | | | Number | | | | |
| Anemia | 71,722 | 11,137 | 6,567 | 1,482 | 192 | 916 | 1,980 | 59,857 | 36,059 | 19,872 |
| Diabetes | 101,975 | 14,833 | 9,227 | 1,805 | 330 | 2,164 | 1,307 | 86,064 | 66,085 | 13,507 |
| Hypertension, pregnancy-associated | 112,016 | 11,647 | 7,413 | 1,094 | 248 | 1,447 | 1,445 | 99,326 | 78,131 | 17,613 |
| Uterine bleeding ³ | 29,050 | 2,522 | 1,451 | 354 | 47 | 431 | 239 | 26,142 | 21,190 | 3,893 |
| Complications of labor and/or delivery | | | | | | | | | | |
| Meconium, moderate/heavy | 239,817 | 38,002 | 23,718 | 4,123 | 600 | 6,376 | 3,185 | 199,399 | 135,791 | 53,702 |
| Premature rupture of membrane | 125,654 | 14,217 | 7,554 | 2,314 | 293 | 2,528 | 1,528 | 109,834 | 80,357 | 24,016 |
| Dysfunctional labor | 116,415 | 16,582 | 10,134 | 1,850 | 460 | 2,453 | 1,685 | 98,395 | 77,991 | 15,842 |
| Breech/Malpresentation | 148,385 | 19,144 | 12,373 | 1,977 | 443 | 2,677 | 1,674 | 127,754 | 102,996 | 18,583 |
| Cephalopelvic disproportion 4,5 | 116,421 | 12,645 | 7,886 | 1,350 | 379 | 1,816 | 1,214 | 102,730 | 81,617 | 15,581 |
| Fetal distress ⁵ | 152,891 | 18,289 | 11,066 | 2,024 | 373 | 3,198 | 1,628 | 133,162 | 95,281 | 31,953 |
| Obstetric procedures | | | | | | | | | | |
| Amniocentesis | 125,543 | 10,409 | 5,749 | 1,202 | 326 | 1,722 | 1,410 | 112,781 | 94,739 | 11,297 |
| Electronic fetal monitoring | 3,062,950 | 426,591 | 274,278 | 45,972 | 8,334 | 61,363 | 36,644 | 2,608,043 | 1,988,575 | 492,004 |
| Induction of labor | 450,823 | 44,521 | 28,802 | 4,766 | 872 | 5,397 | 4,684 | 401,823 | 335,543 | 51,201 |
| Ultrasound | 2,293,115 | 266,658 | 168,512 | 31,596 | 5,247 | 34,895 | 26,408 | 2,003,375 | 1,572,467 | 338,335 |
| Stimulation of labor | 511,126 | 63,868 | 41,139 | 6,869 | 1,040 | 8,298 | 6,522 | 442,128 | 348,990 | 71,881 |
| Medical risk factors | | | | | | Rate | | | | |
| Anemia | 18.3 | 18.0 | 15.8 | 25.9 | 16.8 | 10.5 | 41.1 | 18.3 | 14.7 | 31.3 |
| Diabetes | 26.0 | 23.9 | 22.2 | 31.5 | 29.0 | 24.8 | 27.1 | 26.3 | 26.9 | 21.3 |
| Hypertension, pregnancy-associated | 28.5 | 18.8 | 17.8 | 19.1 | 21.8 | 16.6 | 30.0 | 30.4 | 31.8 | 27.7 |
| Uterine bleeding ³ | 8.0 | 4.9 | 4.5 | 6.3 | 4.2 | 5.3 | 6.0 | 8.4 | 9.1 | 6.5 |
| Complications of labor and/or delivery | | | | | | | | | | |
| Meconium, moderate/heavy | 60.9 | 60.9 | 56.5 | 71.9 | 52.7 | 73.2 | 65.5 | 60.8 | 55.1 | 84.3 |
| Premature rupture of membrane | 31.9 | 22.8 | 18.0 | 40.4 | 25.7 | 29.0 | 31.4 | 33.5 | 32.6 | 37.7 |
| Dysfunctional labor | 29.6 | 26.6 | 24.1 | 32.3 | 40.4 | 28.2 | 34.7 | 30.0 | 31.7 | 24.9 |
| Breech/Malpresentation | 37.7 | 30.7 | 29.5 | 34.5 | 38.9 | 30.7 | 34.4 | 39.0 | 41.8 | 29.2 |
| Cephalopelvic disproportion ^{4,5} | 33.3 | 25.3 | 24.7 | 25.3 | 34.3 | 23.3 | 31.1 | 34.7 | 36.9 | 26.7 |
| Fetal distress ⁵ | 41.9 | 35.9 | 34.6 | 35.8 | 33.3 | 39.1 | 40.4 | 42.9 | 40.8 | 53.4 |
| Obstetric procedures | | | | | | | | | | |
| Amniocentesis | 31.7 | 16.5 | 13.6 | 20.9 | 28.6 | 19.7 | 28.3 | 34.2 | 38.2 | 17.6 |
| Electronic fetal monitoring | 772.3 | 678.1 | 648.1 | 800.0 | 730.0 | 703.6 | 735.9 | 790.4 | 801.8 | 767.5 |
| Induction of labor | 113.7 | 70.8 | 68.1 | 82.9 | 76.4 | 61.9 | 94.1 | 121.8 | 135.3 | 79.9 |
| Ultrasound | 578.2 | 423.9 | 398.2 | 549.8 | 459.6 | 400.1 | 530.3 | 607.1 | 634.0 | 527.8 |
| Stimulation of labor | 128.9 | 101.5 | 97.2 | 119.5 | 91.1 | 95.1 | 131.0 | 134.0 | 140.7 | 112.1 |

NOTE: Excludes New Hampshire, which did not require reporting of Hispanic origin of mother.

<sup>Includes origin not stated.
Includes races other than white and black.
Texas does not report this factor.
New York City (but not New York State) reports this complication.
Texas does not report this complication.</sup>

Table 28. Number of live births by smoking status of mother, percent smokers, and percent distribution by average number of cigarettes smoked by mothers per day, according to age and race of mother: Total of 46 reporting States and the District of Columbia, 1992

| | | | | | Α | ge of mother | - | | | |
|---|---------------|-------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | | 15–19 years | | | | | | |
| Smoking status, smoking measure, and race of mother | All ages | Under 15 years | Total | 15–17 years | 18–19 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–49 years |
| All races 1 | | | | | Numb | er | | | | |
| Total | 3,080,239 | 9,772 | 397,738 | 147,376 | 250,362 | 825,367 | 891,828 | 667,846 | 248,391 | 39,297 |
| Smoker | 506,023 | 652 | 71,812 | 22,401 | 49,411 | 163,134 | 139,729 | 94.014 | 32,295 | 4,387 |
| Nonsmoker | 2,486,246 | 8,831 | 315,174 | 120,870 | 194,304 | 639,953 | 726,855 | 553,655 | 208,190 | 33,588 |
| Not stated | 87,970 | 289 | 10,752 | 4,105 | 6,647 | 22,280 | 25,244 | 20,177 | 7,906 | 1,322 |
| White | | | | | | | | | | |
| Total | 2,413,588 | 3,809 | 259,314 | 88,637 | 170,677 | 616,031 | 732,081 | 563,415 | 206,826 | 32,112 |
| Smoker | 420,713 | 531 | 62,506 | 19,379 | 43,127 | 138,063 | 114,596 | 76,046 | 25,480 | 3,49 |
| Nonsmoker | 1,925,482 | 3,148 | 189,921 | 66,784 | 123,137 | 461,887 | 597,346 | 470,766 | 174,866 | 27,54 |
| Not stated | 67,393 | 130 | 6,887 | 2,474 | 4,413 | 16,081 | 20,139 | 16,603 | 6,480 | 1,073 |
| Black | | | | | | | | | | |
| Total | 556,629 | 5,704 | 127,181 | 54,642 | 72,539 | 183,265 | 127,147 | 78,324 | 30,055 | 4,953 |
| Smoker | 74,450 | 100 | 7,346 | 2,305 | 5,041 | 21,591 | 22,361 | 16,214 | 6,067 | 771 |
| Nonsmoker | 465,256 | 5,450 | 116,344 | 50,832 | 65,512 | 156,266 | 100,718 | 59,481 | 22,989 | 4,008 |
| Not stated | 16,923 | 154 | 3,491 | 1,505 | 1,986 | 5,408 | 4,068 | 2,629 | 999 | 174 |
| | | | | | Perce | ent | | | | |
| Smoker ¹ | 16.9 | 6.9 | 18.6 | 15.6 | 20.3 | 20.3 | 16.1 | 14.5 | 13.4 | 11.6 |
| White | 17.9 | 14.4 | 24.8 | 22.5 | 25.9 | 23.0 | 16.1 | 13.9 | 12.7 | 11.2 |
| Black | 13.8 | 1.8 | 5.9 | 4.3 | 7.1 | 12.1 | 18.2 | 21.4 | 20.9 | 16.1 |
| All races 1 | | | | | Percent dis | tribution | | | | |
| Smoker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1–5 cigarettes | 21.4 | 38.7 | 27.2 | 31.2 | 25.4 | 21.7 | 20.2 | 19.6 | 18.6 | 18.4 |
| 6–10 cigarettes | 40.4 | 40.4 | 43.5 | 44 | 43.3 | 41.3 | 40 | 38.6 | 36.8 | 34.9 |
| 11–15 cigarettes | 6.5 | 4.8 | 5.2 | 4.4 | 5.6 | 6.4 | 6.9 | 7.1 | 6.5 | 7.0 |
| 16–20 cigarettes | 26.3 | 14.3 | 21 | 18 | 22.4 | 26 | 27.4 | 27.9 | 29.3 | 29.8 |
| 21–30 cigarettes | 3.7 | * | 2.2 | 1.8 | 2.3 | 3.2 | 3.9 | 4.7 | 5.6 | 6.0 |
| 31–40 cigarettes | 1.4 | * | 0.8 | 0.6 | 0.9 | 1.2 | 1.4 | 1.9 | 2.8 | 3.3 |
| 41 cigarettes or more | 0.2 | * | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.4 | 0.5 |
| White | | | | | | | | | | |
| Smoker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1–5 cigarettes | 18.7 | 34.6 | 24.3 | 28.3 | 22.5 | 18.6 | 17.3 | 17.2 | 16.3 | 16.2 |
| 6–10 cigarettes | 39.9 | 42.3 | 44.2 | 45.0 | 43.8 | 41.2 | 39.1 | 37.4 | 35.2 | 33.9 |
| 11–15 cigarettes | 7.2 | 5.2 | 5.6 | 4.7 | 6.0 | 7.0 | 7.7 | 7.9 | 7.1 | 7.6 |
| 16–20 cigarettes | 28.3 | 16.3 | 22.6 | 19.3 | 24.1 | 28.2 | 29.7 | 29.9 | 31.3 | 31.2 |
| 21–30 cigarettes | 4.2 | | 2.4 | 2.0 | 2.5 | 3.6 | 4.5 | 5.3 | 6.4 | 6.9 |
| 31–40 cigarettes | 1.5 | * | 0.8 | 0.6 | 0.9 | 1.2 | 1.6 | 2.0 | 3.2 | 3.7 |
| 41 cigarettes or more | 0.2 | | 0.1 | | 0.1 | 0.2 | 0.2 | 0.2 | 0.5 | |
| Black | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Smoker | 100.0 35.4 | 100.0 57.1 | 100.0 48.0 | 100.0 52.1 | 100.0 46.2 | 100.0 39.2 | 100.0 34.1 | 100.0 29.9 | 100.0 27.0 | 100.0 27.1 |
| 1–5 cigarettes | 35.4 42.9 | 31.9 | 48.0 38.4 | 35.5 | 39.8 | 39.2 42.6 | 34.1 44.1 | 29.9 44.1 | 43.0 | 38.9 |
| 11–15 cigarettes | 3.0 | * | 2.1 | 1.7 | 2.2 | 2.5 | 3.1 | 3.6 | 3.9 | 4.5 |
| 16–20 cigarettes | 16.0 | * | 9.9 | 9.0 | 10.3 | 13.8 | 16.3 | 19.1 | 21.8 | 24.2 |
| 21–30 cigarettes | 1.5 | * | 0.8 | * | 0.8 | 1.2 | 1.5 | 1.9 | 2.3 | 2.9 |
| 31–40 cigarettes | 0.9 | * | 0.7 | * | 0.6 | 0.7 | 0.8 | 1.2 | 1.6 | 2.0 |
| | 0.0 | | 0.7 | | 0.0 | 0.7 | 0.0 | | 1.0 | |

¹Includes races other than white and black.

NOTE: Excludes data for California, Indiana, New York, and South Dakota, which did not require reporting of tobacco use during pregnancy.

Table 29. Number of live births by smoking status of mother and percent of mothers who smoked cigarettes during pregnancy, by age and Hispanic origin of mother and by race of mother for mothers of non-Hispanic origin: Total of 45 reporting States and the District of Columbia, 1992

| | | Smokin | g status | | Age of mother | | | | | | | | | |
|----------------------------|-----------|---------|-----------|---------------|---------------|-------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | | | | | 1 | 5–19 ye | ars | | | | | |
| Origin of mother | Total | Smoker | Nonsmoker | Not stated | All ages | Under 15 years | Total | 15–17 years | 18–19 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–49 years |
| | | Nun | nber | | | | | | Percent | smokers | | | | |
| All origins ¹ | 3,064,249 | 502,897 | 2,473,412 | 87,940 | 16.9 | 6.9 | 18.5 | 15.6 | 20.0 | 20.3 | 16.1 | 14.5 | 13.4 | 11.5 |
| Hispanic | 324,649 | 18,081 | 294,919 | 11,649 | 5.8 | 3.4 | 5.8 | 5.3 | 6.0 | 6.1 | 5.5 | 5.7 | 5.7 | 5.0 |
| Mexican | 203,564 | 8,317 | 187,051 | 8,196 | 4.3 | 3.4 | 4.1 | 3.8 | 4.2 | 4.2 | 4.1 | 4.7 | 4.6 | 4.6 |
| Puerto Rican | 35,960 | 4,390 | 30,215 | 1,355 | 12.7 | * | 11.2 | 9.4 | 12.2 | 13.9 | 13.0 | 12.5 | 11.5 | 9.7 |
| Cuban | 10,022 | 590 | 9,350 | 82 | 5.9 | * | 6.6 | * | 6.1 | 6.3 | 5.2 | 6.4 | 6.9 | * |
| Central and South American | 35,508 | 890 | 33,724 | 894 | 2.6 | * | 3.0 | 3.1 | 3.0 | 2.3 | 2.4 | 2.8 | 3.2 | * |
| Other and unknown Hispanic | 39,595 | 3,894 | 34,579 | 1,122 | 10.1 | * | 9.5 | 8.5 | 10.1 | 11.3 | 9.8 | 9.1 | 10.3 | 10.2 |
| Non-Hispanic ² | 2,714,613 | 480,240 | 2,161,480 | 72,893 | 18.2 | 7.4 | 20.6 | 17.5 | 22.2 | 22.3 | 17.2 | 15.2 | 14.1 | 12.3 |
| White | 2,063,552 | 396,714 | 1,613,497 | 53,341 | 19.7 | 20.9 | 29.9 | 28.3 | 30.4 | 26.2 | 17.4 | 14.7 | 13.5 | 12.1 |
| Black | 546,925 | 73,399 | 457,364 | 16,162 | 13.8 | 1.8 | 5.9 | 4.3 | 7.0 | 12.1 | 18.3 | 21.6 | 21.0 | 16.4 |

¹Includes origin not stated.

NOTE: Excludes data for California, Indiana, New Hampshire, New York, and South Dakota, which did not require reporting of either Hispanic origin of mother or tobacco use during pregnancy.

Table 30. Number of live births, percent of mothers who smoked cigarettes during pregnancy, and percent distribution by average number of cigarettes smoked by mothers per day, according to educational attainment and race of mother: Total of 46 reporting States and the District of Columbia, 1992

| | | | | Years of school con | mpleted by mother | | |
|------------------------------------|----------------------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|
| Smoking measure and race of mother | Total | 0–8 years | 9–11 years | 12 years | 13–15 years | 16 years or more | Not stated |
| | | | | Number | | | |
| All races ¹ | 3,080,239 | 144,221 | 515,655 | 1,143,580 | 646,489 | 581,145 | 49,149 |
| WhiteBlack | 2,413,588 556,629 | 116,035 20,455 | 350,357 148,517 | 877,591 230,587 | 520,880 105,876 | 514,397 40,578 | 34,328 10,616 |
| | | | | Percent | | | |
| Smoker ¹ | 16.9 | 16.8 | 30.6 | 20.1 | 12.0 | 3.9 | 17.2 |
| WhiteBlack | 17.9 13.8 | 18.3 11.4 | 35.9 19.3 | 22.1 13.5 | 12.6 10.1 | 4.0 4.7 | 17.5 20.3 |
| All races ¹ | | | F | Percent distribution | | | |
| Smoker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less | 61.9 32.8 5.4 | 55.9 35.6 8.5 | 60.5 33.5 6.0 | 61.2 33.8 5.1 | 64.8 30.7 4.4 | 73.9 22.5 3.6 | 63.7 30.8 5.6 |
| White | | | | | | | |
| Smoker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less | 58.6 35.5 5.9 | 53.5 37.3 9.2 | 56.3 37.0 6.8 | 58.0 36.5 5.5 | 62.3 32.8 4.9 | 73.0 23.1 3.8 | 59.9 33.7 6.5 |
| Black | | | | | | | |
| Smoker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less | 78.3 19.0 2.6 | 72.3 23.9 3.9 | 77.6 19.3 3.1 | 79.2 18.4 2.3 | 79.1 18.9 2.0 | 81.0 17.7 1.2 | 74.1 23.0 2.9 |

¹Includes races other than white and black.

NOTE: Excludes data for California, Indiana, New York, and South Dakota, which did not require reporting of tobacco use during pregnancy.

²Includes races other than white and black.

Table 31. Percent low birthweight by smoking status, age, and race of mother: Total of 46 reporting States and the District of Columbia, 1992

[Low birthweight is defined as weight of less than 2,500 grams (5 lb 8 oz)]

| | | | | | , | Age of mother | - | | | |
|-----------------------------------|-------------|-------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | | 15–19 years | 3 | | | | | |
| Smoking status and race of mother | All ages | Under 15 years | Total | 15–17 years | 18–19 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–49 years |
| All races ¹ | | | | | | | | | | |
| Total | 7.3 | 13.4 | 9.6 | 10.5 | 9.1 | 7.4 | 6.3 | 6.6 | 7.7 | 8.7 |
| Smoker | 11.5 | 13.2 | 11.0 | 11.4 | 10.8 | 10.1 | 11.2 | 12.9 | 15.6 | 16.9 |
| Nonsmoker | 6.3 | 13.4 | 9.2 | 10.2 | 8.6 | 6.6 | 5.3 | 5.5 | 6.4 | 7.6 |
| Not stated | 9.1 | 14.2 | 11.8 | 13.1 | 11.1 | 9.4 | 8.2 | 8.0 | 9.7 | 9.2 |
| White | | | | | | | | | | |
| Total | 5.9 | 9.9 | 7.9 | 8.5 | 7.5 | 6.0 | 5.2 | 5.5 | 6.5 | 7.4 |
| Smoker | 9.7 | 12.6 | 10.4 | 11.0 | 10.1 | 8.8 | 9.1 | 10.3 | 12.6 | 14.2 |
| Nonsmoker | 5.0 | 9.3 | 6.9 | 7.8 | 6.5 | 5.1 | 4.4 | 4.7 | 5.5 | 6.6 |
| Not stated | 7.2 | * | 9.8 | 10.3 | 9.6 | 7.3 | 6.5 | 6.4 | 8.3 | 7.9 |
| Black | | | | | | | | | | |
| Total | 13.4 | 15.9 | 13.5 | 13.9 | 13.2 | 12.3 | 13.1 | 14.8 | 16.2 | 16.7 |
| Smoker | 22.1 | * | 16.7 | 16.1 | 17.0 | 18.8 | 22.4 | 25.7 | 28.6 | 29.1 |
| Nonsmoker | 11.9 | 16.0 | 13.2 | 13.6 | 12.8 | 11.3 | 10.9 | 11.6 | 12.8 | 14.3 |
| Not stated | 16.8 | 14.3 | 16.2 | 17.8 | 15.0 | 15.6 | 17.0 | 18.5 | 19.4 | 16.7 |

¹Includes races other than white and black.

NOTE: Excludes data for California, Indiana, New York, and South Dakota, which did not require reporting of tobacco use during pregnancy.

Table 32. Number of live births by drinking status of mother, percent of mothers who drank during pregnancy, and percent distribution by average number of drinks per week, according to age and race of mother: Total of 47 reporting States and the District of Columbia, 1992

| | | | | | Α | ge of mother | r | | | |
|--|-------------|-------------------|---------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | | 15–19 years | ; | | | | | |
| Drinking status, drinking measure, and race of mother | All ages | Under 15 years | Total | 15–17 years | 18–19 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–49 years |
| All races ¹ | | | | | Numb | er | | | | |
| Total | 3,164,379 | 9,973 | 409,406 | 151,457 | 257,949 | 850,586 | 916,905 | 683,809 | 253,578 | 40,122 |
| Drinker | 78,651 | 82 | 5,381 | 1,701 | 3,680 | 16,613 | 22,864 | 22,723 | 9,634 | 1,354 |
| Nondrinker | 2,993,122 | 9,586 | 392,528 | 145,397 | 247,131 | 810,132 | 867,819 | 639,965 | 235,712 | 37,380 |
| Not stated | 92,606 | 305 | 11,497 | 4,359 | 7,138 | 23,841 | 26,222 | 21,121 | 8,232 | 1,388 |
| White | | | | | | | | | | |
| Total | 2,487,502 | 3,908 | 268,377 | 91,608 | 176,769 | 637,837 | 754,963 | 578,066 | 211,503 | 32,848 |
| Drinker | 57,494 | 46 | 3,744 | 1,169 | 2,575 | 11,059 | 16,150 | 17,725 | 7,659 | 1,111 |
| Nondrinker | 2,359,345 | 3,732 | 257,205 | 87,794 | 169,411 | 609,541 | 718,027 | 543,085 | 197,139 | 30,616 |
| Not stated | 70,663 | 130 | 7,428 | 2,645 | 4,783 | 17,237 | 20,786 | 17,256 | 6,705 | 1,121 |
| Black | | | | | | | | | | |
| Total | 566,055 | 5,806 | 129,734 | 55,737 | 73,997 | 186,549 | 129,060 | 79,409 | 30,472 | 5,025 |
| Drinker | 18,262 | 30 | 1,251 | 398 | 853 | 4,756 | 5,906 | 4,412 | 1,711 | 196 |
| Nondrinker | 529,591 | 5,608 | 124,786 | 53,752 | 71,034 | 176,008 | 118,767 | 72,117 | 27,666 | 4,639 |
| Not stated | 18,202 | 168 | 3,697 | 1,587 | 2,110 | 5,785 | 4,387 | 2,880 | 1,095 | 190 |
| | | | | | Perce | ent | | | | |
| Drinker ¹ | 2.6 | 0.8 | 1.4 | 1.2 | 1.5 | 2.0 | 2.6 | 3.4 | 3.9 | 3.5 |
| White | 2.4 | 1.2 | 1.4 | 1.3 | 1.5 | 1.8 | 2.2 | 3.2 | 3.7 | 3.5 |
| Black | 3.3 | 0.5 | 1.0 | 0.7 | 1.2 | 2.6 | 4.7 | 5.8 | 5.8 | 4.1 |
| All races 1 | | | | | Percent dis | tribution | | | | |
| Drinker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1 drink or less | 60.7 | 62.7 | 59.6 | 59.3 | 59.7 | 58.3 | 60.1 | 62.6 | 62.3 | 58.1 |
| 2 drinks | 16.5 | * | 17.0 | 17.3 | 16.8 | 16.2 | 16.2 | 16.5 | 16.8 | 19.0 |
| 3–4 drinks | 10.5 | * | 11.2 | 11.1 | 11.2 | 11.6 | 10.7 | 9.9 | 9.9 | 9.9 |
| 5 drinks or more | 12.3 | * | 12.3 | 12.3 | 12.3 | 13.9 | 13.0 | 11.0 | 11.0 | 12.9 |
| White | | | | | | | | | | |
| Drinker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1 drink or less | 67.9 | * | 64.0 | 62.2 | 64.8 | 65.4 | 69.2 | 69.1 | 67.9 | 62.6 |
| 2 drinks | 15.2 | * | 14.9 | 17.0 | 14.0 | 14.9 | 14.3 | 15.6 | 16.2 | 18.6 |
| 3–4 drinks | 8.5 | * | 10.1 | 9.8 | 10.2 | 9.2 | 8.1 | 8.1 | 8.5 | 9.0 |
| 5 drinks or more | 8.4 | * | 11.0 | 11.0 | 11.0 | 10.5 | 8.4 | 7.2 | 7.4 | 9.8 |
| Black | | | | | | | | | | |
| Drinker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1 drink or less | 37.5 | * | 48.0 | 52.6 | 46.0 | 42.6 | 34.8 | 34.4 | 33.9 | 31.7 |
| 2 drinks | 21.1 | * | 22.8 | 18.2 | 24.8 | 20.1 | 22.1 | 20.6 | 20.8 | 23.2 |
| 3–4 drinks | 16.9 | * | 14.0 | 14.2 | 14.0 | 16.3 | 17.8 | 17.4 | 16.9 | 14.1 |
| 5 drinks or more | 24.5 | * | 15.1 | 15.0 | 15.2 | 21.0 | 25.3 | 27.6 | 28.4 | 31.0 |

¹Includes races other than white and black.

NOTE: Excludes data for California, New York, and South Dakota, which did not require reporting of alcohol use during pregnancy.

Table 33. Live births by month of pregnancy prenatal care began and percent of mothers beginning care in the first trimester and percent with late or no care, by age and race of mother: United States, 1992

| | | | | | Month of pregi | nancy pren | atal care be | egan | | | |
|------------------------|---------------|-----------|----------------------|-------------|-------------------|------------|-------------------|------------|---------------|------------------|--------------------|
| | | | 1st trimester | | 2d trimester | La | te or no ca | re | | Perd | ent |
| Age and race of mother | All births | Total | 1st and 2d months | 3d month | 4th–6th months | Total | 7th–9th months | No care | Not stated | 1st trimester | Late or no care |
| All races ¹ | 4,065,014 | 3,091,543 | 2,260,718 | 830,825 | 679,052 | 205,914 | 137,257 | 68,657 | 88,505 | 77.7 | 5.2 |
| Under 15 years | 12,220 | 5,057 | 2,748 | 2,309 | 4,695 | 2,026 | 1,370 | 656 | 442 | 42.9 | 17.2 |
| 15–19 years | 505,415 | 292,992 | 177,586 | 115,406 | 151,518 | 47,838 | 33,294 | 14,544 | 13,067 | 59.5 | 9.7 |
| 15 years | 29,267 | 14,216 | 8,040 | 6,176 | 10,513 | 3,595 | 2,489 | 1,106 | 943 | 50.2 | 12.7 |
| 16 years | 60,136 | 32,093 | 18,565 | 13,528 | 19,825 | 6,510 | 4,631 | 1,879 | 1,708 | 54.9 | 11.1 |
| 17 years | 98,146 | 55,639 | 33,034 | 22,605 | 30,366 | 9,510 | 6,555 | 2,955 | 2,631 | 58.3 | 10.0 |
| 18 years | 138,663 | 81,180 | 49,218 | 31,962 | 41,016 | 13,046 | 9,040 | 4,006 | 3,421 | 60.0 | 9.6 |
| 19 years | 179,203 | 109,864 | 68,729 | 41,135 | 49,798 | 15,177 | 10,579 | 4,598 | 4,364 | 62.8 | 8.7 |
| 20–24 years | 1,070,490 | 744,811 | 509,673 | 235,138 | 230,864 | 70,154 | 47,917 | 22,237 | 24,661 | 71.2 | 6.7 |
| 25–29 years | 1,179,264 | 958,007 | 725,886 | 232,121 | 152,789 | 45,003 | 29,001 | 16,002 | 23,465 | 82.9 | 3.9 |
| 30–34 years | 895,271 | 757,955 | 588,469 | 169,486 | 92,931 | 26,763 | 16,832 | 9,931 | 17,622 | 86.4 | 3.0 |
| 35–39 years | 344,644 | 287,523 | 222,368 | 65,155 | 37,962 | 11,512 | 7,211 | 4,301 | 7,647 | 85.3 | 3.4 |
| 40 years and over | 57,710 | 45,198 | 33,988 | 11,210 | 8,293 | 2,618 | 1,632 | 986 | 1,601 | 80.6 | 4.7 |
| White | 3,201,678 | 2,541,435 | 1,887,486 | 653,949 | 471,778 | 130,561 | 91,717 | 38,844 | 57,904 | 80.8 | 4.2 |
| Under 15 years | 5,367 | 2,476 | 1,337 | 1,139 | 1,914 | 821 | 564 | 257 | 156 | 47.5 | 15.8 |
| 15–19 years | 342,739 | 209,301 | 127,516 | 81,785 | 96,974 | 28,890 | 20,745 | 8,145 | 7,574 | 62.4 | 8.6 |
| 15 years | 15,966 | 8,257 | 4,702 | 3,555 | 5,411 | 1,855 | 1,289 | 566 | 443 | 53.2 | 12.0 |
| 16 years | 37,256 | 20,941 | 12,125 | 8,816 | 11,662 | 3,770 | 2,742 | 1,028 | 883 | 57.6 | 10.4 |
| 17 years | 65,564 | 38,942 | 23,182 | 15,760 | 19,340 | 5,756 | 4,111 | 1,645 | 1,526 | 60.8 | 9.0 |
| 18 years | 95,949 | 59,032 | 35,885 | 23,147 | 26,891 | 7,992 | 5,729 | 2,263 | 2,034 | 62.9 | 8.5 |
| 19 years | 128,004 | 82,129 | 51,622 | 30,507 | 33,670 | 9,517 | 6,874 | 2,643 | 2,688 | 65.5 | 7.6 |
| 20–24 years | 814,422 | 591,097 | 409,309 | 181,788 | 162,132 | 45,437 | 32,512 | 12,925 | 15,756 | 74.0 | 5.7 |
| 25–29 years | 964,586 | 809,204 | 620,832 | 188,372 | 110,528 | 29,087 | 20,130 | 8,957 | 15,767 | 85.3 | 3.1 |
| 30–34 years | 745,510 | 648,912 | 509,405 | 139,507 | 67,265 | 17,075 | 11,603 | 5,472 | 12,258 | 88.5 | 2.3 |
| 35–39 years | 282,617 | 242,906 | 190,400 | 52,506 | 27,021 | 7,445 | 4,993 | 2,452 | 5,245 | 87.6 | 2.7 |
| 40 years and over | 46,437 | 37,539 | 28,687 | 8,852 | 5,944 | 1,806 | 1,170 | 636 | 1,148 | 82.9 | 4.0 |
| Black | 673,633 | 415,144 | 277,970 | 137,174 | 170,148 | 64,024 | 36,527 | 27,497 | 24,317 | 63.9 | 9.9 |
| Under 15 years | 6,448 | 2,420 | 1,339 | 1,081 | 2,633 | 1,125 | 744 | 381 | 270 | 39.2 | 18.2 |
| 15–19 years | 146,800 | 75,493 | 45,309 | 30,184 | 49,255 | 17,116 | 11,112 | 6,004 | 4,936 | 53.2 | 12.1 |
| 15 years | 12,432 | 5,579 | 3,126 | 2,453 | 4,776 | 1,616 | 1,105 | 511 | 461 | 46.6 | 13.5 |
| 16 years | 20,970 | 10,247 | 5,944 | 4,303 | 7,475 | 2,480 | 1,690 | 790 | 768 | 50.7 | 12.3 |
| 17 years | 29,600 | 15,187 | 8,993 | 6,194 | 10,014 | 3,400 | 2,172 | 1,228 | 999 | 53.1 | 11.9 |
| 18 years | 38,362 | 19,918 | 12,017 | 7,901 | 12,635 | 4,574 | 2,927 | 1,647 | 1,235 | 53.6 | 12.3 |
| 19 years | 45,436 | 24,562 | 15,229 | 9,333 | 14,355 | 5,046 | 3,218 | 1,828 | 1,473 | 55.9 | 11.5 |
| 20–24 years | 216,057 | 128,776 | 84,037 | 44,739 | 58,470 | 21,411 | 12,766 | 8,645 | 7,400 | 61.7 | 10.3 |
| 25–29 years | 157,960 | 106,853 | 75,020 | 31,833 | 32,292 | 12,952 | 6,492 | 6,460 | 5,863 | 70.3 | 8.5 |
| 30–34 years | 100,339 | 70,308 | 50,278 | 20,030 | 18,427 | 7,734 | 3,659 | 4,075 | 3,870 | 72.9 | 8.0 |
| 35–39 years | 39,389 | 26,944 | 19,032 | 7,912 | 7,649 | 3,118 | 1,479 | 1,639 | 1,678 | 71.4 | 8.3 |
| 40 years and over | 6,640 | 4,350 | 2,955 | 1,395 | 1,422 | 568 | 275 | 293 | 300 | 68.6 | 9.0 |

¹Includes races other than white and black.

Table 34. Percent of mothers beginning prenatal care in the first trimester and percent of mothers with late or no prenatal care by race of mother: United States and each State, 1992

[By place of residence]

| | Percent | beginning care in 1st tr | imester | Per | cent late ¹ or no ca | re |
|----------------------|---------------------------|--------------------------|---------|------------------------|---------------------------------|-------|
| State | All races ² | White | Black | All races ² | White | Black |
| Inited States | 77.7 | 80.8 | 63.9 | 5.2 | 4.2 | 9.9 |
| labama | 77.1 | 84.2 | 63.7 | 4.7 | 2.6 | 8.7 |
| laska | 83.1 | 85.8 | 81.7 | 3.0 | 2.2 | * |
| rizona | 71.3 | 73.0 | 66.6 | 8.1 | 7.5 | 10.1 |
| rkansas | 72.3 | 77.0 | 57.3 | 6.5 | 4.7 | 12.2 |
| alifornia | 75.1 | 74.9 | 72.3 | 5.3 | 5.4 | 6.3 |
| olorado | 79.0 | 80.1 | 67.6 | 4.9 | 4.5 | 8.8 |
| onnecticut | 87.5 | 89.8 | 72.8 | 2.6 | 1.9 | 7.0 |
| elaware | 80.5 | 86.7 | 61.3 | 4.7 | 2.6 | 11.2 |
| District of Columbia | 56.9 | 87.0 | 52.3 | 13.9 | 3.1 | 16.0 |
| | | | | | | |
| lorida | 77.9 | 82.2 | 64.4 | 4.6 | 3.5 | 8.0 |
| eorgia | 75.8 | 82.6 | 64.2 | 5.4 | 3.5 | 8.6 |
| awaii | 73.6 | 76.8 | 65.9 | 5.7 | 3.7 | 4.7 |
| laho | 76.6 | 76.8 | 69.6 | 5.2 | 5.1 | * |
| linois | 78.2 | 82.6 | 63.2 | 5.0 | 3.7 | 9.6 |
| ndiana | 78.3 | 80.4 | 61.7 | 4.9 | 4.2 | 10.4 |
| owa | 86.2 | 86.9 | 72.0 | 2.4 | 2.2 | 5.6 |
| ansas | 83.6 | 85.0 | 71.3 | 3.2 | 2.8 | 7.0 |
| entucky | 80.1 | 81.6 | 65.8 | 4.2 | 3.7 | 8.4 |
| ouisiana | 76.3 | 85.5 | 63.9 | 5.8 | 2.7 | 10.1 |
| aine | 87.3 | 87.4 | 80.2 | 1.8 | 1.8 | * |
| aryland | 85.0 | 90.7 | 72.8 | 3.7 | 1.8 | 7.7 |
| assachusetts | 87.2 | 89.1 | 74.4 | 2.1 | 1.7 | 5.2 |
| lichigan | 80.8 | 84.9 | 65.6 | 3.7 | 2.5 | 8.4 |
| linnesota | 81.8 | 84.9 | 52.4 | 3.5 | 2.4 | 13.8 |
| lississippi | 74.9 | 84.8 | 64.6 | 5.0 | 2.4 | 7.7 |
| lissouri | 80.5 | 84.0 | 64.0 | 4.2 | 2.9 | 10.6 |
| Iontana | 78.2 | 80.9 | 81.3 | 4.2 | 3.2 | * |
| ebraska | 82.3 | 83.7 | 66.4 | 3.2 | 2.8 | 7.9 |
| evada | 71.5 | 73.5 | 54.7 | 7.8 | 7.0 | 13.8 |
| ew Hampshire | 87.3 | 87.5 | 72.8 | 2.1 | 2.0 | * |
| ew Hampshire | 07.3 | 07.5 | 12.0 | 2.1 | 2.0 | |
| ew Jersey | 81.5 | 86.1 | 62.7 | 4.6 | 2.8 | 11.8 |
| ew Mexico | 61.7 | 64.6 | 53.3 | 9.9 | 8.6 | 12.7 |
| ew York | 74.7 | 79.9 | 56.9 | 6.8 | 4.8 | 13.8 |
| orth Carolina | 79.4 | 85.8 | 64.7 | 4.2 | 2.4 | 8.4 |
| orth Dakota | 82.2 | 84.4 | 73.0 | 2.8 | 2.0 | * |
| hio | 82.3 | 85.3 | 66.4 | 3.9 | 2.7 | 10.1 |
| oklahoma | 74.6 | 77.9 | 58.9 | 6.4 | 5.1 | 12.1 |
| Pregon | 78.7 | 79.3 | 65.7 | 4.0 | 3.8 | 8.3 |
| ennsylvania | 79.6 | 84.3 | 54.8 | 5.2 | 3.1 | 16.9 |
| hode Island | 88.5 | 90.4 | 73.8 | 2.0 | 1.5 | 5.5 |
| outh Carolina | 71.3 | 80.8 | 56.1 | 6.9 | 3.9 | 11.8 |
| outh Dakota | 79.0 | 82.3 | 65.8 | 5.0 | 2.8 | * |
| ennessee | 79.6 79.6 | 83.6 | 67.2 | 4.0 | 2.7 | 7.8 |
| | 79.6 | 71.2 | 62.8 | 9.2 | 8.9 | 12.1 |
| exas | | | | | | 14.1 |
| tah | 85.0 | 86.0 | 71.1 | 2.5 | 2.1 | * |
| ermont | 84.5 | 84.7 | 75.0 | 2.7 | 2.6 | |
| irginia | 81.8 | 86.6 | 68.1 | 3.7 | 2.4 | 7.6 |
| /ashington | 79.8 | 81.0 | 68.9 | 4.0 | 3.7 | 7.8 |
| /est Virginia | 76.7 | 77.5 | 55.4 | 4.2 | 3.9 | 13.2 |
| /isconsin | 82.0 | 85.8 | 60.2 | 3.6 | 2.5 | 10.7 |
| /yoming | 79.0 | 79.8 | 66.2 | 4.3 | 3.9 | * |

¹Care beginning in 3d trimester. ²Includes races other than white and black.

Table 35. Live births by month of pregnancy prenatal care began, number of prenatal visits, and median number of visits, by race of mother: United States, 1992

| | | | | Month o | of pregnancy prena | atal care bega | an | | |
|---|---------------|-----------|----------------------|-------------|--------------------|----------------|-------------------|------------|---------------|
| | | | 1st trimester | | 2d trimester | L | ate or no care |) | |
| Number of prenatal visits and race of mother | All births | Total | 1st and 2d months | 3d month | 4th–6th months | Total | 7th–9th months | No care | Not stated |
| All races ¹ | 4,065,014 | 3,091,543 | 2,260,718 | 830,825 | 679,052 | 205,914 | 137,257 | 68,657 | 88,505 |
| No visits | 68,657 | | | | | | | 68,657 | |
| 1–2 visits | 57,562 | 11,875 | 7,038 | 4,837 | 15,075 | 28,116 | 28,116 | | 2,496 |
| 3–4 visits | 113,048 | 27,042 | 14,145 | 12,897 | 46,412 | 37,186 | 37,186 | | 2,408 |
| 5–6 visits | 226,732 | 85,814 | 45,735 | 40,079 | 103,601 | 33,514 | 33,514 | | 3,803 |
| 7–8 visits | 383,365 | 213,119 | 121,750 | 91,369 | 147,430 | 19,231 | 19,231 | | 3,585 |
| 9–10 visits | 773,103 | 574,674 | 364,255 | 210,419 | 182,298 | 9,893 | 9,893 | | 6,238 |
| 11–12 visits | 1,045,613 | 937,242 | 688,353 | 248,889 | 99,847 | 3,479 | 3,479 | | 5,045 |
| 13–14 visits | 634,613 | 594,440 | 480,643 | 113,797 | 36,658 | 1,211 | 1,211 | | 2,304 |
| 15–16 visits | 419,747 | 393,234 | 328,322 | 64,912 | 23,891 | 957 | 957 | | 1,665 |
| 17–18 visits | 92,312 | 87,415 | 72,883 | 14,532 | 4,333 | 147 | 147 | | 417 |
| 19 visits or more | 133,562 | 124,052 | 105,867 | 18,185 | 8,244 | 427 | 427 | | 839 |
| Not stated | 116,700 | 42,636 | 31,727 | 10,909 | 11,263 | 3,096 | 3,096 | | 59,705 |
| Median number of visits | 12.1 | 12.5 | 12.8 | 11.5 | 9.3 | 3.3 | 5.1 | | 10.1 |
| White | 3,201,678 | 2,541,435 | 1,887,486 | 653,949 | 471,778 | 130,561 | 91,717 | 38,844 | 57,904 |
| No visits | 38,844 | | | | | | | 38,844 | |
| 1–2 visits | 33,481 | 6,968 | 4,232 | 2,736 | 7,752 | 17,512 | 17,512 | | 1,249 |
| 3–4 visits | 69,309 | 16,240 | 8,518 | 7,722 | 27,308 | 24,404 | 24,404 | | 1,357 |
| 5–6 visits | 152,151 | 59,055 | 31,510 | 27,545 | 67,973 | 22,828 | 22,828 | | 2,295 |
| 7–8 visits | 283,421 | 163,657 | 94,649 | 69,008 | 103,836 | 13,529 | 13,529 | • • • | 2,399 |
| 9–10 visits | 605,692 | 463,432 | 297,567 | 165,865 | 130,858 | 6,955 | 6,955 | | 4,447 |
| | | | 588,121 | | | | | • • • | |
| 11–12 visits | 871,802 | 791,381 | , | 203,260 | 74,010 | 2,615 | 2,615 | | 3,796 |
| 13–14 visits | 540,020 | 509,646 | 415,823 | 93,823 | 27,706 | 923 | 923 | | 1,745 |
| 15–16 visits | 344,443 | 325,592 | 274,641 | 50,951 | 16,935 | 712 | 712 | | 1,204 |
| 17–18 visits | 76,845 | 73,229 | 61,353 | 11,876 | 3,199 | 108 | 108 | | 309 |
| 19 visits or more | 108,670 | 102,111 | 88,184 | 13,927 | 5,663 | 280 | 280 | | 616 |
| Not stated | 77,000 | 30,124 | 22,888 | 7,236 | 6,538 | 1,851 | 1,851 | | 38,487 |
| Median number of visits | 12.2 | 12.6 | 12.8 | 11.7 | 9.5 | 3.7 | 5.3 | | 10.4 |
| Black | 673,633 | 415,144 | 277,970 | 137,174 | 170,148 | 64,024 | 36,527 | 27,497 | 24,317 |
| No visits | 27,497 | | | | | | | 27,497 | |
| 1–2 visits | 20,609 | 4,267 | 2,407 | 1,860 | 6,457 | 8,800 | 8,800 | | 1,085 |
| 3–4 visits | 36,386 | 9,134 | 4,778 | 4,356 | 16,127 | 10,238 | 10,238 | | 887 |
| 5–6 visits | 60,418 | 21,703 | 11,590 | 10,113 | 28,955 | 8,492 | 8,492 | | 1,268 |
| 7–8 visits | 77,967 | 37,858 | 20,589 | 17,269 | 34,781 | 4,402 | 4,402 | | 926 |
| 9–10 visits | 128,203 | 82,413 | 48,824 | 33,589 | 42,051 | 2,329 | 2,329 | | 1,410 |
| 11–12 visits | 128,245 | 105,691 | 71,143 | 34,548 | 20,938 | 659 | 659 | | 957 |
| 13–14 visits | 70,558 | 62,596 | 47,170 | 15,426 | 7,357 | 209 | 209 | | 396 |
| 15–16 visits | 58,424 | 51,901 | 40,838 | 11,063 | 5,948 | 212 | 212 | | 363 |
| 17–18 visits | 11,978 | 10,916 | 8,854 | 2,062 | 948 | 28 | 28 | | 86 |
| 19 visits or more | 20,388 | 17,791 | 14,153 | 3,638 | 2,293 | 122 | 122 | | 182 |
| Not stated | 32,960 | 10,874 | 7,624 | 3,250 | 4,293 | 1,036 | 1,036 | | 16,757 |
| Median number of visits | 10.7 | 12.2 | 12.6 | 11.0 | 8.8 | 2.0 | 4.7 | | 8.3 |

¹Includes races other than white and black.

Table 36. Live births with selected obstetric procedures and rates by age of mother, by race of mother: United States, 1992

[Rates are number of live births with specified procedure per 1,000 live births in specified group]

| | | 01.1.1. | | | Ą | ge of mothe | r | | | |
|--|----------------------------|------------------------------------|-------------|-------------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Obstetric procedure and race of mother | All births ¹ | Obstetric procedure reported | All ages | Under 20 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–49 years | Not stated |
| All races ² | Nur | nber | | | | Rate | | | | Number |
| Amniocentesis | 4,065,014 | 126,433 | 31.7 | 11.0 | 13.3 | 16.2 | 29.6 | 152.4 | 191.6 | 82,847 |
| Electronic fetal monitoring | 4,065,014 | 3,076,276 | 772.5 | 780.3 | 776.0 | 775.6 | 769.4 | 753.7 | 736.8 | 82,847 |
| Induction of labor | 4,065,014 | 453,093 | 113.8 | 97.6 | 110.0 | 118.5 | 118.6 | 119.0 | 127.3 | 82,847 |
| Stimulation of labor | 4,065,014 | 513,161 | 128.9 | 128.1 | 129.4 | 131.8 | 128.1 | 121.9 | 120.7 | 82,847 |
| Tocolysis | 4,065,014 | 74,962 | 18.8 | 21.6 | 19.4 | 17.8 | 17.9 | 18.8 | 17.7 | 82,847 |
| Ultrasound | 4,065,014 | 2,305,538 | 579.0 | 561.3 | 574.2 | 584.6 | 586.1 | 583.8 | 571.7 | 82,847 |
| White | | | | | | | | | | |
| Amniocentesis | 3,201,678 | 107,788 | 34.3 | 11.8 | 13.9 | 16.6 | 30.9 | 162.3 | 207.6 | 62,611 |
| Electronic fetal monitoring | 3,201,678 | 2,439,042 | 777.0 | 783.2 | 780.0 | 781.0 | 774.9 | 758.3 | 740.7 | 62,611 |
| Induction of labor | 3,201,678 | 384,968 | 122.6 | 108.8 | 120.1 | 126.4 | 125.2 | 125.6 | 134.1 | 62,611 |
| Stimulation of labor | 3,201,678 | 416,908 | 132.8 | 134.3 | 133.9 | 135.2 | 131.5 | 124.8 | 123.3 | 62,611 |
| Tocolysis | 3,201,678 | 60,761 | 19.4 | 23.3 | 20.2 | 18.2 | 18.2 | 19.3 | 18.5 | 62,611 |
| Ultrasound | 3,201,678 | 1,862,716 | 593.4 | 580.0 | 589.6 | 597.6 | 597.8 | 596.3 | 584.7 | 62,611 |
| Black | | | | | | | | | | |
| Amniocentesis | 673,633 | 11,629 | 17.7 | 9.0 | 11.1 | 13.8 | 20.1 | 82.9 | 106.4 | 17,293 |
| Electronic fetal monitoring | 673,633 | 503,787 | 767.6 | 779.0 | 770.8 | 762.5 | 758.5 | 752.9 | 744.7 | 17,293 |
| Induction of labor | 673,633 | 52,371 | 79.8 | 73.6 | 76.8 | 82.2 | 86.4 | 90.0 | 104.2 | 17,293 |
| Stimulation of labor | 673,633 | 73,998 | 112.7 | 114.9 | 115.2 | 113.2 | 106.6 | 105.3 | 109.2 | 17,293 |
| Tocolysis | 673,633 | 10,611 | 16.2 | 16.9 | 16.0 | 15.9 | 16.4 | 15.5 | 11.5 | 17,293 |
| Ultrasound | 673,633 | 345,894 | 527.0 | 521.5 | 527.1 | 528.5 | 530.7 | 532.1 | 530.2 | 17,293 |

 $^{^{1}\}text{Total}$ number of births to residents of areas reporting specified obstetric procedure. $^{2}\text{Includes}$ races other than white and black.

Table 37. Live births with selected complications of labor and/or delivery and rates by age of mother, by race of mother: United States, 1992

[Rates are number of live births with specified complication per 1,000 live births in specified group]

| | | | | | A | ge of mothe | er | | | |
|---------------------------------|----------------------------|-----------------------|-------------|-------------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Complication and race of mother | All births ¹ | Complication reported | All ages | Under 20 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–49 years | Not stated |
| All races ² | Nu | ımber | | | | Rate | | | | Number |
| Febrile | 4,065,014 | 53,583 | 13.6 | 16.9 | 14.2 | 13.2 | 12.0 | 11.9 | 11.7 | 110,653 |
| Meconium, moderate/heavy | 4,065,014 | 240,705 | 60.9 | 65.8 | 61.6 | 58.8 | 58.8 | 62.7 | 66.8 | 110,653 |
| Premature rupture of membrane | 4,065,014 | 126,597 | 32.0 | 31.6 | 30.3 | 31.1 | 33.2 | 36.8 | 39.9 | 110,653 |
| Abruptio placenta | 4,065,014 | 23,061 | 5.8 | 5.8 | 5.5 | 5.6 | 5.9 | 7.1 | 8.4 | 110,653 |
| Placenta previa | 4,065,014 | 13,966 | 3.5 | 1.3 | 2.2 | 3.4 | 5.0 | 7.1 | 8.5 | 110,653 |
| Other excessive bleeding | 4,065,014 | 21,227 | 5.4 | 5.0 | 5.0 | 5.3 | 5.6 | 6.6 | 7.3 | 110,653 |
| Seizures during labor | 4,065,014 | 1,504 | 0.4 | 0.8 | 0.4 | 0.3 | 0.3 | 0.4 | 0.4 | 110,653 |
| Precipitous labor | 4,065,014 | 76,504 | 19.3 | 15.2 | 18.6 | 19.2 | 21.3 | 22.7 | 23.6 | 110,653 |
| Prolonged labor | 4,065,014 | 39,410 | 10.0 | 11.0 | 10.4 | 9.8 | 9.2 | 9.4 | 11.2 | 110,653 |
| Dysfunctional labor | 4,065,014 | 116,959 | 29.6 | 28.9 | 29.4 | 30.2 | 29.0 | 29.6 | 32.9 | 110,653 |
| Breech/Malpresentation | 4,065,014 | 149,063 | 37.7 | 29.5 | 32.4 | 38.2 | 43.1 | 48.1 | 53.0 | 110,653 |
| Cephalopelvic disproportion 3,4 | 3,588,024 | 117,118 | 33.3 | 31.4 | 32.2 | 35.6 | 33.1 | 32.5 | 34.6 | 74,661 |
| Cord prolapse | 4,065,014 | 9,842 | 2.5 | 2.2 | 2.3 | 2.4 | 2.6 | 3.2 | 3.1 | 110,653 |
| Anesthetic complication 4 | 3,744,169 | 1,613 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.6 | 0.6 | 80,157 |
| Fetal distress 4 | 3,744,169 | 153,484 | 41.9 | 47.4 | 42.2 | 40.2 | 39.3 | 43.5 | 53.6 | 80,157 |
| White | | | | | | | | | | |
| Febrile | 3,201,678 | 39,626 | 12.7 | 15.3 | 13.4 | 12.6 | 11.4 | 11.4 | 11.1 | 85,619 |
| Meconium, moderate/heavy | 3,201,678 | 175,207 | 56.2 | 59.1 | 56.5 | 54.7 | 55.0 | 59.3 | 63.8 | 85,619 |
| Premature rupture of membrane | 3,201,678 | 96,178 | 30.9 | 29.9 | 29.1 | 29.9 | 32.0 | 35.8 | 40.0 | 85,619 |
| Abruptio placenta | 3,201,678 | 17,601 | 5.6 | 5.8 | 5.3 | 5.4 | 5.7 | 6.9 | 8.1 | 85,619 |
| Placenta previa | 3,201,678 | 10,839 | 3.5 | 1.2 | 2.1 | 3.4 | 4.7 | 6.8 | 8.0 | 85,619 |
| · | | 16,489 | 5.3 | 5.2 | 4.9 | 5.2 | 5.4 | 6.3 | 7.2 | , |
| Other excessive bleeding | 3,201,678 | | | | | | | | 1.2 | 85,619 |
| Seizures during labor | 3,201,678 | 1,085 | 0.3 | 0.7 | 0.4 | 0.3 | 0.3 | 0.3 | 22.2 | 85,619 |
| Precipitous labor. | 3,201,678 | 57,609 | 18.5 | 13.6 | 16.9 | 18.4 | 20.8 | 22.7 | 23.3 | 85,619 |
| Prolonged labor | 3,201,678 | 32,116 | 10.3 | 11.8 | 11.0 | 10.1 | 9.3 | 9.7 | 11.4 | 85,619 |
| Dysfunctional labor | 3,201,678 | 95,804 | 30.7 | 31.1 | 31.3 | 31.1 | 29.6 | 30.1 | 33.6 | 85,619 |
| Breech/Malpresentation | 3,201,678 | 123,531 | 39.6 | 33.0 | 34.3 | 39.7 | 44.2 | 48.7 | 53.9 | 85,619 |
| Cephalopelvic disproportion 3,4 | 2,795,677 | 95,401 | 34.8 | 33.1 | 34.6 | 37.0 | 33.6 | 33.1 | 35.2 | 55,031 |
| Cord prolapse | 3,201,678 | 7,640 | 2.5 | 2.2 | 2.3 | 2.3 | 2.6 | 3.2 | 3.2 | 85,619 |
| Anesthetic complication 4 | 2,931,480 | 1,272 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.6 | 0.6 | 59,484 |
| Fetal distress ⁴ | 2,931,480 | 114,623 | 39.9 | 45.7 | 40.8 | 38.3 | 37.4 | 41.2 | 51.0 | 59,484 |
| Black | 070 000 | 44.000 | 47.0 | 00.0 | 47.4 | 45.7 | 447 | 440 | 40.0 | 04.074 |
| Febrile | 673,633 | 11,090 | 17.0 | 20.6 | 17.1 | 15.7 | 14.7 | 14.3 | 12.2 | 21,271 |
| Meconium, moderate/heavy | 673,633 | 55,024 | 84.3 | 81.6 | 81.6 | 85.1 | 89.6 | 92.5 | 91.6 | 21,271 |
| Premature rupture of membrane | 673,633 | 24,680 | 37.8 | 34.9 | 35.0 | 38.5 | 43.5 | 46.8 | 43.0 | 21,271 |
| Abruptio placenta | 673,633 | 4,546 | 7.0 | 5.9 | 6.5 | 7.2 | 8.2 | 9.3 | 10.4 | 21,271 |
| Placenta previa | 673,633 | 2,301 | 3.5 | 1.5 | 2.5 | 3.9 | 6.4 | 7.5 | 9.0 | 21,271 |
| Other excessive bleeding | 673,633 | 2,761 | 4.2 | 3.6 | 4.0 | 4.2 | 5.2 | 5.6 | 4.7 | 21,271 |
| Seizures during labor | 673,633 | 367 | 0.6 | 1.0 | 0.5 | 0.4 | 0.4 | 0.5 | * | 21,271 |
| Precipitous labor | 673,633 | 14,421 | 22.1 | 18.0 | 23.2 | 23.1 | 24.1 | 22.9 | 21.2 | 21,271 |
| Prolonged labor | 673,633 | 5,077 | 7.8 | 8.6 | 7.5 | 7.6 | 7.6 | 6.9 | 8.6 | 21,271 |
| Dysfunctional labor | 673,633 | 16,366 | 25.1 | 24.7 | 23.6 | 26.2 | 26.1 | 26.8 | 29.3 | 21,271 |
| Breech/Malpresentation | 673,633 | 19,068 | 29.2 | 21.9 | 25.5 | 30.5 | 38.5 | 45.5 | 51.1 | 21,271 |
| Cephalopelvic disproportion 3,4 | 613,955 | 15,887 | 26.6 | 28.4 | 24.6 | 27.6 | 27.2 | 25.5 | 26.0 | 16,734 |
| Cord prolapse | 673,633 | 1,774 | 2.7 | 2.3 | 2.5 | 2.8 | 3.4 | 3.2 | 3.3 | 21,271 |
| Anesthetic complication 4 | 630,617 | 269 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | * | 17,655 |
| Fetal distress ⁴ | 630,617 | 32,645 | 53.3 | 52.5 | 49.0 | 54.2 | 56.7 | 62.2 | 77.6 | 17,655 |

¹ Total number of births to residents of areas reporting specified complication.
2 Includes races other than white and black.
3 New York City (but not New York State) reports this complication.
4 Texas does not report this complication.

Table 38. Live births by attendant, place of delivery, and race of mother: United States, 1992

| Place of delivery and race of mother | All births | Attendant | | | | | | | | |
|--------------------------------------|---------------|-----------|--------------------|----------------------|---------|----------------------------|------------------|--------|-------------|--|
| | | Physician | | | | Midwife | | | | |
| | | Total | Doctor of medicine | Doctor of osteopathy | Total | Certified nurse midwife | Other midwife | Other | Unspecified | |
| All races 1 | | | | | | | | | | |
| Total | 4,065,014 | 3,834,502 | 3,697,967 | 136,535 | 199,195 | 185,005 | 14,190 | 27,161 | 4,156 | |
| In hospital ² | 4,021,608 | 3,824,176 | 3,688,870 | 135,306 | 178,537 | 176,117 | 2,420 | 15,615 | 3,280 | |
| Not in hospital | 43,017 | 10,214 | 8,996 | 1,218 | 20,645 | 8,878 | 11,767 | 11,512 | 646 | |
| Freestanding birthing center | 13,255 | 4,032 | 3,413 | 619 | 8,900 | 5,715 | 3,185 | 315 | 8 | |
| Clinic or doctor's office | 900 | 489 | 373 | 116 | 227 | 142 | 85 | 165 | 19 | |
| Residence | 25,923 | 4,600 | 4,153 | 447 | 11,022 | 2,928 | 8,094 | 9,782 | 519 | |
| Other | 2,939 | 1,093 | 1,057 | 36 | 496 | 93 | 403 | 1,250 | 100 | |
| Not specified | 389 | 112 | 101 | 11 | 13 | 10 | 3 | 34 | 230 | |
| White | | | | | | | | | | |
| Total | 3,201,678 | 3,027,509 | 2,913,244 | 114,265 | 150,300 | 136,934 | 13,366 | 20,924 | 2,945 | |
| In hospital ² | 3,165,195 | 3,020,255 | 2,907,141 | 113,114 | 130,557 | 128,672 | 1,885 | 12,058 | 2,325 | |
| Not in hospital | 36,182 | 7,171 | 6,030 | 1,141 | 19,735 | 8,255 | 11,480 | 8,849 | 427 | |
| Freestanding birthing center | 12,448 | 3,728 | 3,115 | 613 | 8,418 | 5,297 | 3,121 | 299 | 3 | |
| Clinic or doctor's office | 733 | 391 | 277 | 114 | 210 | 132 | 78 | 120 | 12 | |
| Residence | 21,155 | 2,536 | 2,149 | 387 | 10,639 | 2,757 | 7,882 | 7,635 | 345 | |
| Other | 1,846 | 516 | 489 | 27 | 468 | 69 | 399 | 795 | 67 | |
| Not specified | 301 | 83 | 73 | 10 | 8 | 7 | 1 | 17 | 193 | |
| Black | | | | | | | | | | |
| Total | 673,633 | 631,740 | 613,482 | 18,258 | 36,131 | 35,581 | 550 | 4,731 | 1,031 | |
| In hospital ² | 668,303 | 629,106 | 610,916 | 18,190 | 35,601 | 35,176 | 425 | 2,732 | 864 | |
| Not in hospital | 5,257 | 2,612 | 2,545 | 67 | 527 | 403 | 124 | 1,983 | 135 | |
| Freestanding birthing center | 452 | 133 | 130 | 3 | 308 | 273 | 35 | 7 | 4 | |
| Clinic or doctor's office | 80 | 60 | 59 | 1 | 5 | 5 | _ | 8 | 7 | |
| Residence | 3,839 | 1,912 | 1,858 | 54 | 195 | 106 | 89 | 1,630 | 102 | |
| Other | 886 | 507 | 498 | 9 | 19 | 19 | _ | 338 | 22 | |
| Not specified | 73 | 22 | 21 | 1 | 3 | 2 | 1 | 16 | 32 | |

¹ Includes races other than white and black.
2 Includes births occurring en route to or on arrival at hospital.

Table 39. Live births by method of delivery and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by age and race of mother: United States, 1992

| Age and race of mother | Births by method of delivery | | | | | | | Cesarean delivery rate | | |
|------------------------|------------------------------|-----------|-------------------------|----------|---------|---------|---------------|------------------------|----------------------|---|
| | | Vaginal | | Cesarean | | | | | | Rate of |
| | All births | Total | After previous cesarean | Total | Primary | Repeat | Not stated | Total ¹ | Primary ² | vaginal birth after previous cesarean ³ |
| All races ⁴ | 4,065,014 | 3,100,710 | 97,549 | 888,622 | 554,662 | 333,960 | 75,682 | 22.3 | 15.6 | 22.6 |
| Under 20 years | 517,635 | 425,831 | 4,144 | 81,684 | 70,079 | 11,605 | 10,120 | 16.1 | 14.3 | 26.3 |
| 20–24 years | 1,070,490 | 845,242 | 20,884 | 205,142 | 139,034 | 66,108 | 20,106 | 19.5 | 14.4 | 24.0 |
| 25–29 years | 1,179,264 | 893,312 | 30,937 | 264,389 | 160,566 | 103,823 | 21,563 | 22.8 | 15.7 | 23.0 |
| 30–34 years | 895,271 | 656,455 | 28,884 | 222,316 | 121,468 | 100,848 | 16,500 | 25.3 | 16.2 | 22.3 |
| 35–39 years | 344,644 | 241,179 | 11,215 | 97,126 | 52,745 | 44,381 | 6,339 | 28.7 | 18.7 | 20.2 |
| 40–49 years | 57,710 | 38,691 | 1,485 | 17,965 | 10,770 | 7,195 | 1,054 | 31.7 | 22.4 | 17.1 |
| White | 3,201,678 | 2,434,959 | 77,977 | 705,841 | 437,398 | 268,443 | 60,878 | 22.5 | 15.7 | 22.5 |
| Under 20 years | 348,106 | 285,976 | 2,311 | 54,931 | 47,992 | 6,939 | 7,199 | 16.1 | 14.5 | 25.0 |
| 20–24 years | 814,422 | 641,411 | 15,045 | 157,357 | 108,225 | 49,132 | 15,654 | 19.7 | 14.7 | 23.4 |
| 25–29 years | 964,586 | 730,143 | 25,248 | 216,583 | 131,322 | 85,261 | 17,860 | 22.9 | 15.7 | 22.8 |
| 30–34 years | 745,510 | 547,531 | 24,579 | 184,000 | 99,312 | 84,688 | 13,979 | 25.2 | 16.0 | 22.5 |
| 35–39 years | 282,617 | 198,666 | 9,554 | 78,646 | 42,087 | 36,559 | 5,305 | 28.4 | 18.2 | 20.7 |
| 40–49 years | 46,437 | 31,232 | 1,240 | 14,324 | 8,460 | 5,864 | 881 | 31.4 | 22.0 | 17.5 |
| Black | 673,633 | 514,929 | 15,382 | 146,480 | 93,165 | 53,315 | 12,224 | 22.1 | 15.7 | 22.4 |
| Under 20 years | 153,248 | 125,665 | 1,713 | 24,918 | 20,489 | 4,429 | 2,665 | 16.5 | 14.2 | 27.9 |
| 20–24 years | 216,057 | 170,062 | 5,130 | 42,108 | 26,646 | 15,462 | 3,887 | 19.8 | 13.9 | 24.9 |
| 25–29 years | 157,960 | 117,430 | 4,524 | 37,583 | 21,996 | 15,587 | 2,947 | 24.2 | 16.3 | 22.5 |
| 30–34 years | 100,339 | 71,045 | 2,893 | 27,432 | 15,466 | 11,966 | 1,862 | 27.9 | 18.5 | 19.5 |
| 35–39 years | 39,389 | 26,465 | 974 | 12,190 | 7,112 | 5,078 | 734 | 31.5 | 21.8 | 16.1 |
| 40–49 years | 6,640 | 4,262 | 148 | 2,249 | 1,456 | 793 | 129 | 34.5 | 26.1 | 15.7 |

Percent of all live births by cesarean delivery.

Number of primary cesareans per 100 live births to women who have not had a previous cesarean.

Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.

Includes races other than white and black.

Table 40. Live births by method of delivery and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by age and race of mother: United States, 1989-92

| | | | Births by r | method of de | elivery | | | Cesarear | delivery rate | | |
|-------------------------|---------------|-----------|-------------------------|--------------|----------|---------|---------------|--------------------|----------------------|--|--|
| | | Vag | inal | | Cesarean | | | | | Rate of vaginal birth after previous cesarean ³ | |
| Year and race of mother | All births | Total | After previous cesarean | Total | Primary | Repeat | Not stated | Total ¹ | Primary ² | | |
| All races ⁴ | | | | | | | | | | | |
| 1992 | 4,065,014 | 3,100,710 | 97,549 | 888,622 | 554,662 | 333,960 | 75,682 | 22.3 | 15.6 | 22.6 | |
| 1991 | 4,110,907 | 3,100,891 | 90,690 | 905,077 | 569,195 | 335,882 | 104,939 | 22.6 | 15.9 | 21.3 | |
| 1990 ⁵ | 4,110,563 | 3,111,421 | 84,299 | 914,096 | 575,066 | 339,030 | 85,046 | 22.7 | 16.0 | 19.9 | |
| 1989 ⁶ | 3,798,734 | 2,793,463 | 71,019 | 826,955 | 521,873 | 305,082 | 178,316 | 22.8 | 16.1 | 18.9 | |
| White | | | | | | | | | | | |
| 1992 | 3,201,678 | 2,434,959 | 77,977 | 705,841 | 437,398 | 268,443 | 60,878 | 22.5 | 15.7 | 22.5 | |
| 1991 | 3,241,273 | 2,434,900 | 72,564 | 723,088 | 452,534 | 270,554 | 83,285 | 22.9 | 16.1 | 21.1 | |
| 1990 ⁵ | 3,252,473 | 2,453,857 | 67,191 | 732,713 | 458,656 | 274,057 | 65,903 | 23.0 | 16.1 | 19.7 | |
| 1989 ⁶ | 3,022,537 | 2,212,843 | 56,851 | 667,114 | 418,177 | 248,937 | 142,580 | 22.8 | 16.1 | 18.9 | |
| Black | | | | | | | | | | | |
| 1992 | 673,633 | 514,929 | 15,382 | 146,480 | 93,165 | 53,315 | 12,224 | 22.1 | 15.7 | 22.4 | |
| 1991 | 682,602 | 519,047 | 14,213 | 145,583 | 92,645 | 52,938 | 17,972 | 21.9 | 15.5 | 21.2 | |
| 1990 ⁵ | 679,236 | 516,581 | 13,496 | 146,472 | 93,476 | 52,996 | 16,183 | 22.1 | 15.7 | 20.3 | |
| 1989 ⁶ | 611,147 | 452,291 | 11,104 | 127,907 | 82,695 | 45,212 | 30,319 | 22.0 | 15.8 | 19.7 | |

The percent of all live births by cesarean delivery.

2 Number of primary cesareans per 100 live births to women who have not had a previous cesarean.

3 Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.

4 Includes races other than white and black.

5 Excludes Oklahoma, which did not require reporting of method of delivery.

6 Excludes Louisiana, Maryland, Nebraska, Nevada, and Okalahoma, which did not require reporting of method of delivery.

Table 41. Rates of cesarean delivery and vaginal birth after previous cesarean delivery, by selected medical risk factors, complications of labor and/or delivery, and obstetric procedures: United States, 1992

| | All births with specified | Cesarear | delivery rate | Rate of vaginal birth |
|---|-------------------------------|--------------------|----------------------|---|
| Medical risk factor, complication, and obstetric procedure | condition and/or procedure | Total ¹ | Primary ² | after previous cesarean ³ |
| Medical risk factors | | | | |
| Anemia | 71,942 | 24.7 | 17.1 | 23.0 |
| Cardiac disease | 15,544 | 25.4 | 18.2 | 24.6 |
| Acute or chronic lung disease | 16,593 | 26.8 | 19.2 | 24.8 |
| Diabetes | 102,253 | 35.8 | 25.9 | 17.6 |
| Senital herpes 4,5 | 28,747 | 42.6 | 36.8 | 24.8 |
| lydramnios/Oligohydramnios ⁴ | 29,860 | 41.7 | 36.4 | 19.0 |
| lemoglobinopathy 4 | 2,160 | 27.9 | 21.5 | 25.7 |
| lypertension, chronic | 25,964 | 40.2 | 31.3 | 15.8 |
| lypertension, pregnancy-associated | 112,419 | 40.0 | 35.2 | 16.5 |
| clampsia | 14,369 | 51.0 | 46.9 | 12.7 |
| ncompetent cervix 4 | 8,516 | 30.7 | 23.2 | 25.3 |
| tenal disease | 8,933 | 27.2 | 20.1 | 21.2 |
| Rh sensitization 6 | 24,832 | 23.7 | 16.5 | 25.1 |
| Iterine bleeding ⁵ | 29,159 | 32.2 | 25.1 | 22.2 |
| Complications of labor and/or delivery | | | | |
| ebrile | 53,583 | 33.7 | 31.5 | 42.9 |
| Meconium, moderate/heavy | 240,705 | 22.2 | 19.2 | 42.5 |
| remature rupture of membrane | 126,597 | 28.0 | 24.6 | 33.4 |
| Abruptio placenta | 23,061 | 58.2 | 53.9 | 15.8 |
| Placenta previa | 13,966 | 81.7 | 77.6 | 3.7 |
| Other excessive bleeding | 21,227 | 32.9 | 26.0 | 25.4 |
| Seizures during labor | 1,504 | 51.1 | 48.6 | * |
| Precipitous labor (less than 3 hours) | 76,504 | 1.8 | 1.3 | 83.8 |
| Prolonged labor (more than 20 hours) | 39,410 | 37.6 | 36.1 | 42.2 |
| Dysfunctional labor | 116,959 | 67.4 | 65.5 | 16.3 |
| Breech/Malpresentation | 149,063 | 85.0 | 83.5 | 4.6 |
| Cephalopelvic disproportion 7,8 | 117,118 | 97.8 | 97.5 | 1.0 |
| Cord prolapse | 9,842 | 64.6 | 62.2 | 12.4 |
| Anesthetic complications 8 | 1,613 | 53.5 | 43.9 | 11.3 |
| Fetal distress 8 | 153,484 | 60.7 | 58.5 | 19.4 |
| | | | | |
| Obstetric procedures | 126,433 | 35.6 | 24.7 | 18.0 |
| Amniocentesis | , | 35.6 21.6 | | |
| Electronic fetal monitoring | 3,076,276 | | 15.7 | 26.9 |
| nduction of labor | 453,093 | 20.2 | 18.6 | 54.2 |
| Stimulation of labor | 513,161 | 15.9 | 14.5 | 61.9 |
| ocolysis | 74,962 | 28.9 | 23.4 | 25.6 |
| Jltrasound | 2,305,538 | 24.5 | 17.3 | 22.4 |

<sup>Tercent of all live births by cesarean delivery.

Number of primary cesareans per 100 live births to women who have not had a previous cesarean.

Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.

New York City (but not New York State) reports this risk factor.

Kansas does not report this risk factor.

New York City (but not New York State) reports this complication.

Texas does not report this complication.</sup>

Table 42. Live births by birthweight and percent very low and low birthweight, by period of gestation and race of mother: United States, 1992

| | | | | | | <i>F</i> 6. | riod of gestat | | | | | |
|---|--------------------|-----------------------------|-------------------|----------------|------------------|------------------|--------------------------|-------------------|-------------|-----------------|----------------------|----------------|
| | | | | Preterm | | | | Terr | n | | Postterm | |
| Birthweight ¹ and race of mother | All births | Total, under 37 weeks | Under 28 weeks | 28–31 weeks | 32–35 weeks | 36 weeks | Total, 37–41 weeks | 37–39 weeks | 40 weeks | 41 weeks | 42 weeks and over | Not stated |
| | | | | | | Nur | mber | | | | | |
| All races ³ | 4,065,014 | 430,239 | 28,514 | 48,250 | 202,991 | 150,484 | 3,176,108 | 1,706,356 | 918,548 | 551,204 | 418,021 | 40,64 |
| _ess than 500 grams | 5,437 | 5,235 | 5,015 | 204 | 15 | 1 | 13 | 7 | 3 | 3 | 2 | 18 |
| 500–999 grams | 20,516 | 19,794 | 14,878 | 4,262 | 622 | 32 | 239 | 149 | 54 | 36 | 25 | 45 |
| 1,000–1,499 grams | 26,475 | 24,190 | 4,159 | 13,425 | 6,028 | 578 | 1,544 | 1,136 | 259 | 149 | 268 | 47 |
| 1,500–1,999 grams | 55,306 | 43,907 | 1,340 | 10,918 | 27,106 | 4,543 | 9,587 | 7,719 | 1,229 | 639 | 1,050 | 76 |
| 2,000–2,499 grams | 179,759 | 85,176 | 946 | 4,960 | 54,250 | 25,020 | 85,179 | 66,595 | 12,325 | 6,259 | 7,170 | 2,23 |
| 2,500–2,999 grams | 654,760 | 112,261 | 1,421 | 5,428 | 51,468 | 53,944 | 488,616 | 341,299 | 98,960 | 48,357 | 47,049 | 6,83 |
| 3,000–3,499 grams | 1,490,769 | 90,828 | , <u> </u> | 6,024 | 40,259 | 44,545 | 1,239,288 | 708,781 | 344,550 | 185,957 | 146,948 | 13,70 |
| 3,500–3,999 grams | 1,191,796 | 38,432 | _ | 2,910 | 18,254 | 17,268 | 994,540 | 450,475 | 333,352 | 210,713 | 148,381 | 10,443 |
| 4,000–4,499 grams | 365,543 | 7,918 | _ | · _ | 4,116 | 3,802 | 299,835 | 110,647 | 107,579 | 81,609 | 54,545 | 3,24 |
| 4,500–4,999 grams | 62,573 | 1,142 | _ | - | 600 | 542 | 49,951 | 16,648 | 17,850 | 15,453 | 10,932 | 548 |
| 5,000 grams or more | 7,597 | 210 | _ | _ | 99 | 111 | 5,861 | 2,140 | 1,976 | 1,745 | 1,405 | 12 |
| Not stated | 4,483 | 1,146 | 755 | 119 | 174 | 98 | 1,455 | 760 | 411 | 284 | 246 | 1,636 |
| | | | | | | Per | cent | | | | | |
| Very low birthweight 4 | 1.3 | 11.5 | 86.6 | 37.2 | 3.3 | 0.4 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 2.9 |
| Low birthweight 5 | 7.1 | 41.6 | 94.9 | 70.2 | 43.4 | 20.1 | 3.0 | 4.4 | 1.5 | 1.3 | 2.0 | 10.5 |
| Low billinweight | 7.1 | 41.0 | 34.3 | 70.2 | 45.4 | | nber | 4.4 | 1.5 | 1.5 | 2.0 | 10.0 |
| White | 3,201,678 | 288,718 | 15,184 | 29,102 | 135,643 | 108,789 | 2,546,260 | 1,335,455 | 751,652 | 459,153 | 336,680 | 30,020 |
| | 2,903 | 2,790 | 2,681 | 105 | 133,043 | 100,709 | 2,340,200 | 1,335,433 | 731,032 | 459,155 | 2 | |
| Less than 500 grams | | | | | 388 | 15 | 163 | 101 | 35 | 27 | 14 | 105 247 |
| 500–999 grams | 11,599 | 11,175 | 8,155 | 2,617 | | 359 | | 714 | | | | 279 |
| 1,000–1,499 grams | 16,287 | 14,881 | 2,249 | 8,395 | 3,878 | | 969 | | 160 785 | 95 394 | 158 | 445 |
| 1,500–1,999 grams | 35,795 | 28,449 | 603 | 6,983 | 17,770 | 3,093 | 6,248 | 5,069 | 7,985 | | 653 | |
| 2,000–2,499 grams | 119,078 459,142 | 57,026 76,220 | 418 689 | 2,621 2,788 | 36,934 34,143 | 17,053 38,600 | 56,155 345,770 | 44,184 240,640 | 70,390 | 3,986 34,740 | 4,539 32,629 | 1,358 4,523 |
| 2,500–2,999 grams | 1,160,043 | 62,335 | - 009 | 3,557 | 25,890 | 32,888 | 973,680 | 552,106 | 272,740 | 148,834 | 113,871 | 10,157 |
| 3,500–3,499 grams | 1,007,943 | 27,935 | _ | 1,968 | 12,827 | 13,140 | 846,271 | 379,023 | 285,405 | 181,843 | 125,294 | 8,443 |
| 4,000–4,499 grams | 323,182 | 6,206 | _ | 1,900 | 3,161 | 3,045 | 265,970 | 96,653 | 96,029 | 73,288 | 48,234 | 2,772 |
| 4,500–4,999 grams | 55,933 | 898 | _ | _ | 460 | 438 | 44,746 | 14,582 | 16,042 | 14,122 | 9,826 | 463 |
| 5,000 grams or more | 6,620 | 164 | _ | _ | 74 | 90 | 5,094 | 1,774 | 1,734 | 1,586 | 1,267 | 95 |
| Not stated | 3,153 | 639 | 389 | 68 | 114 | 68 | 1,188 | 606 | 345 | 237 | 1,207 | 1,133 |
| | | | | | | Per | cent | | | | | |
| Very low birthweight 4 | 1.0 | 10.0 | 88.4 | 38.3 | 3.2 | 0.3 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 2.2 |
| Low birthweight 5 | 5.8 | 39.7 | 95.3 | 71.4 | 43.5 | 18.9 | 2.5 | 3.8 | 1.2 | 1.0 | 1.6 | 8.4 |
| · · | | | | | | Nur | mber | | | | | |
| Black | 673,633 | 122,455 | 12,484 | 17,312 | 58,059 | 34,600 | 479,286 | 283,799 | 125,278 | 70,209 | 64,427 | 7,465 |
| ess than 500 grams | 2,382 | 2,303 | 2,204 | 87 | 11 | 1 | 7 | 4 | 1 | 2 | _ | 72 |
| 500–999 grams | 8,291 | 8,043 | 6,301 | 1,515 | 213 | 14 | 66 | 45 | 17 | 4 | 6 | 176 |
| 1,000–1,499 grams | 9,222 | 8,458 | 1,776 | 4,575 | 1,927 | 180 | 497 | 376 | 76 | 45 | 106 | 161 |
| 1,500–1,999 grams | 17,365 | 13,794 | 693 | 3,585 | 8,261 | 1,255 | 2,958 | 2,346 | 399 | 213 | 357 | 256 |
| 2,000–2,499 grams | 52,257 | 24,758 | 491 | 2,149 | 15,279 | 6,839 | 24,485 | 18,831 | 3,670 | 1,984 | 2,329 | 685 |
| 2,500–2,999 grams | 157,560 | 30,842 | 670 | 2,378 | 14,979 | 12,815 | 112,897 | 79,331 | 22,510 | 11,056 | 12,106 | 1,715 |
| 3,000–3,499 grams | 253,261 | 23,724 | _ | 2,153 | 12,053 | 9,518 | 200,718 | 118,266 | 54,000 | 28,452 | 26,431 | 2,388 |
| 3,500–3,999 grams | 136,237 | 8,500 | _ | 822 | 4,425 | 3,253 | 108,920 | 52,664 | 34,893 | 21,363 | 17,575 | 1,242 |
| 4,000–4,499 grams | 30,514 | 1,336 | _ | - | 737 | 599 | 24,311 | 10,072 | 8,235 | 6,004 | 4,580 | 287 |
| 4,500–4,999 grams | 4,719 | 190 | _ | _ | 106 | 84 | 3,678 | 1,483 | 1,249 | 946 | 800 | 51 |
| 5,000 grams or more | 683 | 36 | _ | - | 19 | 17 | 544 | 262 | 177 | 105 | 89 | 14 |
| Not stated | 1,142 | 471 | 349 | 48 | 49 | 25 | 205 | 119 | 51 | 35 | 48 | 418 |
| | | | | | | Per | cent | | | | | |
| Very low birthweight 4 | 3.0 | 15.4 | 84.7 | 35.8 | 3.7 | 0.6 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 5.8 |
| Low birthweight 5 | 13.3 | 47.0 | 94.5 | 69.0 | 44.3 | 24.0 | 5.8 | 7.6 | 3.3 | 3.2 | 4.3 | 19.2 |

¹Equivalents of the gram weights in pounds and ounces are shown in the Technical notes.
²Expressed in completed weeks.
³Includes races other than white and black.
⁴Less than 1,500 grams.
⁵Less than 2,500 grams.

Table 43. Percent of live births preterm and percent of live births of low birthweight by race of mother: United States, 1981–92

| | | Preterm ¹ | | Low birthweight ³ | | | | |
|------------------|------------------------|----------------------|-------|------------------------------|-------|-------|--|--|
| Year | All races ² | White | Black | All races ² | White | Black | | |
| 1992 | 10.7 | 9.1 | 18.4 | 7.1 | 5.8 | 13.3 | | |
| 1991 | 10.8 | 9.1 | 18.9 | 7.1 | 5.8 | 13.6 | | |
| 990 | 10.6 | 8.9 | 18.8 | 7.0 | 5.7 | 13.3 | | |
| 989 | 10.6 | 8.8 | 18.9 | 7.0 | 5.7 | 13.5 | | |
| 988 | 10.2 | 8.5 | 18.7 | 6.9 | 5.7 | 13.3 | | |
| 987 | 10.2 | 8.5 | 18.4 | 6.9 | 5.7 | 13.0 | | |
| 986 | 10.0 | 8.4 | 18.0 | 6.8 | 5.7 | 12.8 | | |
| 985 | 9.8 | 8.2 | 17.8 | 6.8 | 5.7 | 12.6 | | |
| 984 ⁴ | 9.4 | 7.9 | 17.1 | 6.7 | 5.6 | 12.6 | | |
| 983 ⁴ | 9.6 | 8.0 | 17.7 | 6.8 | 5.7 | 12.8 | | |
| 982 ⁴ | 9.5 | 8.0 | 17.4 | 6.8 | 5.6 | 12.6 | | |
| 981 4 | 9.4 | 7.9 | 17.3 | 6.8 | 5.7 | 12.7 | | |

Births of less than 37 completed weeks gestation.

Includes races other than white and black.

Less than 2,500 grams.

Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

Table 44. Number and percent low birthweight and number of live births by birthweight, by age and race of mother: United States, 1992

| | | | | | | | | | Birthweigl | nt ² | | | | | |
|------------------------|-----------|----------------------|-----------|---------------------|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|--------|
| | Low birti | hweight ¹ | | Less than 500 | 500- 999 | 1,000– 1,499 | 1,500- 1,999 | 2,000- 2,499 | 2,500– 2,999 | 3,000- 3,499 | 3,500- 3,999 | 4,000– 4,499 | 4,500– 4,999 | 5,000 grams | Not |
| Age and race of mother | Number | Percent | Total | grams | grams | grams | grams | grams | grams | grams | grams | grams | grams | or more | stated |
| All races ³ | | | | | | | | | | | | | | | |
| All ages | 287,493 | 7.1 | 4,065,014 | 5,437 | 20,516 | 26,475 | 55,306 | 179,759 | 654,760 | 1,490,769 | 1,191,796 | 365,543 | 62,573 | 7,597 | 4,483 |
| Under 15 years | 1,608 | 13.2 | 12,220 | 27 | 154 | 201 | 302 | 924 | 3,044 | 4,795 | 2,318 | 384 | 40 | - | 31 |
| 15–19 years | 46,707 | 9.3 | 505,415 | 896 | 3,546 | 4,451 | 8,912 | 28,902 | 104,993 | 200,179 | 121,407 | 27,549 | 3,620 | 386 | 574 |
| 15 years | 3,382 | 11.6 | 29,267 | 66 | 326 | 364 | 659 | 1,967 | 6,779 | 11,627 | 6,116 | 1,191 | 126 | 15 | 31 |
| 16 years | 6,278 | 10.5 | 60,136 | 116 | 524 | 669 | 1,129 | 3,840 | 13,331 | 24,039 | 13,355 | 2,705 | 323 | 31 | 74 |
| 17 years | 9,309 | 9.5 | 98,146 | 184 | 704 | 864 | 1,818 | 5,739 | 20,828 | 39,074 | 23,015 | 5,067 | 674 | 52 | 127 |
| 18 years | 12,509 | 9.0 | 138,663 | 247 | 946 | 1,141 | 2,378 | 7,797 | 28,595 | 55,039 | 33,523 | 7,756 | 972 | 115 | 154 |
| 19 years | 15,229 | 8.5 | 179,203 | 283 | 1,046 | 1,413 | 2,928 | 9,559 | 35,460 | 70,400 | 45,398 | 10,830 | 1,525 | 173 | 188 |
| 20–24 years | 76,290 | 7.1 | 1,070,490 | 1,355 | 5,319 | 6,934 | 14,073 | 48,609 | 186,813 | 410,130 | 299,045 | 82,793 | 12,786 | 1,457 | 1,176 |
| 25–29 years | 73,223 | 6.2 | 1,179,264 | 1,442 | 5,052 | 6,405 | 13,849 | 46,475 | 175,506 | 428,566 | 363,814 | 114,974 | 19,550 | 2,421 | 1,210 |
| 30–34 years | 58,428 | 6.5 | 895,271 | 1,105 | 4,229 | 5,415 | 11,657 | 36,022 | 125,653 | 311,808 | 282,607 | 95,980 | 17,695 | 2,138 | 962 |
| 35–39 years | 26,343 | 7.7 | 344,644 | 518 | 1,859 | 2,556 | 5,481 | 15,929 | 49,993 | 116,181 | 105,730 | 37,489 | 7,494 | 982 | 432 |
| 40–44 years | 4,688 | 8.4 | 55,702 | 92 | 337 | 484 | 994 | 2,781 | 8,443 | 18,441 | 16,313 | 6,186 | 1,334 | 204 | 93 |
| 45–49 years | 206 | 10.3 | 2,008 | 2 | 20 | 29 | 38 | 117 | 315 | 669 | 562 | 188 | 54 | 9 | 5 |
| White | | | | | | | | | | | | | | | |
| All ages | 185,662 | 5.8 | 3,201,678 | 2,903 | 11,599 | 16,287 | 35,795 | 119,078 | 459,142 | 1,160,043 | 1,007,943 | 323,182 | 55,933 | 6,620 | 3,153 |
| Under 15 years | 548 | 10.2 | 5,367 | 10 | 43 | 64 | 109 | 322 | 1,137 | 2,169 | 1,247 | 223 | 28 | - | 15 |
| 15–19 years | 26,061 | 7.6 | 342,739 | 391 | 1,798 | 2,400 | 4,971 | 16,501 | 63,273 | 135,638 | 91,738 | 22,365 | 2,999 | 306 | 359 |
| 15 years | 1,468 | 9.2 | 15,966 | 26 | 138 | 154 | 298 | 852 | 3,190 | 6,353 | 3,951 | 882 | 95 | 12 | 15 |
| 16 years | 3,179 | 8.5 | 37,256 | 44 | 260 | 343 | 572 | 1,960 | 7,252 | 15,006 | 9,394 | 2,108 | 251 | 25 | 41 |
| 17 years | 5,187 | 7.9 | 65,564 | 88 | 344 | 493 | 1,012 | 3,250 | 12,369 | 26,033 | 17,258 | 4,060 | 542 | 39 | 76 |
| 18 years | 7,151 | 7.5 | 95,949 | 102 | 512 | 606 | 1,354 | 4,577 | 17,681 | 38,129 | 25,694 | 6,301 | 805 | 89 | 99 |
| 19 years | 9,076 | 7.1 | 128,004 | 131 | 544 | 804 | 1,735 | 5,862 | 22,781 | 50,117 | 35,441 | 9,014 | 1,306 | 141 | 128 |
| 20–24 years | 47,398 | 5.8 | 814,422 | 686 | 2,841 | 4,022 | 8,711 | 31,138 | 127,211 | 309,555 | 245,575 | 71,480 | 11,212 | 1,240 | 751 |
| 25–29 years | 49,242 | 5.1 | 964,586 | 767 | 2,909 | 4,089 | 9,321 | 32,156 | 128,933 | 346,912 | 315,577 | 103,237 | 17,663 | 2,134 | 888 |
| 30–34 years | 40,643 | 5.5 | 745,510 | 649 | 2,573 | 3,635 | 8,126 | 25,660 | 94,747 | 256,614 | 248,016 | 86,821 | 16,058 | 1,886 | 725 |
| 35–39 years | 18,329 | 6.5 | 282,617 | 337 | 1,191 | 1,722 | 3,817 | 11,262 | 37,387 | 93,979 | 91,499 | 33,456 | 6,763 | 866 | 338 |
| 40–44 years | 3,281 | 7.3 | 44,866 | 62 | 229 | 331 | 712 | 1,947 | 6,224 | 14,663 | 13,844 | 5,439 | 1,162 | 180 | 73 |
| 45–49 years | 160 | 10.2 | 1,571 | 1 | 15 | 24 | 28 | 92 | 230 | 513 | 447 | 161 | 48 | 8 | 4 |

See footnotes at end of table.

Table 44. Number and percent low birthweight and number of live births by birthweight, by age and race of mother: United States, 1992—Con.

| | | | Birthweight ² | | | | | | | | | | | | |
|------------------------|-----------|----------------------|--------------------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|---------------|
| | Low birti | hweight ¹ | | Less than | 500- | 1,000- | 1,500- | 2,000- | 2,500- | 3,000- | 3,500- | 4,000- | 4,500- | 5,000 | |
| Age and race of mother | Number | Percent | Total | 500 grams | 999 grams | 1,499 grams | 1,999 grams | 2,499 grams | 2,999 grams | 3,499 grams | 3,999 grams | 4,499 grams | 4,999 grams | grams or more | Not stated |
| Black | | | | | | | | | | | | | | | |
| All ages | 89,517 | 13.3 | 673,633 | 2,382 | 8,291 | 9,222 | 17,365 | 52,257 | 157,560 | 253,261 | 136,237 | 30,514 | 4,719 | 683 | 1,142 |
| Under 15 years | 1,021 | 15.9 | 6,448 | 16 | 107 | 135 | 183 | 580 | 1,797 | 2,458 | 1,004 | 143 | 10 | _ | 15 |
| 15–19 years | 19,403 | 13.2 | 146,800 | 491 | 1,676 | 1,939 | 3,716 | 11,581 | 38,170 | 58,170 | 25,958 | 4,337 | 500 | 68 | 194 |
| 15 years | 1,838 | 14.8 | 12,432 | 40 | 181 | 200 | 349 | 1,068 | 3,369 | 4,929 | 1,983 | 270 | 26 | 3 | 14 |
| 16 years | 2,933 | 14.0 | 20,970 | 71 | 253 | 307 | 531 | 1,771 | 5,647 | 8,277 | 3,512 | 499 | 63 | 6 | 33 |
| 17 years | 3,874 | 13.1 | 29,600 | 93 | 346 | 354 | 755 | 2,326 | 7,822 | 11,831 | 5,070 | 839 | 104 | 12 | 48 |
| 18 years | 5,047 | 13.2 | 38,362 | 142 | 412 | 506 | 969 | 3,018 | 9,923 | 15,144 | 6,836 | 1,208 | 133 | 21 | 50 |
| 19 years | 5,711 | 12.6 | 45,436 | 145 | 484 | 572 | 1,112 | 3,398 | 11,409 | 17,989 | 8,557 | 1,521 | 174 | 26 | 49 |
| 20–24 years | 26,264 | 12.2 | 216,057 | 642 | 2,377 | 2,712 | 4,934 | 15,599 | 51,209 | 84,167 | 43,735 | 8,940 | 1,193 | 164 | 385 |
| 25–29 years | 20,647 | 13.1 | 157,960 | 636 | 1,956 | 2,092 | 3,966 | 11,997 | 35,178 | 58,090 | 34,047 | 8,216 | 1,313 | 202 | 267 |
| 30-34 years | 14,760 | 14.7 | 100,339 | 421 | 1,516 | 1,548 | 2,992 | 8,283 | 21,494 | 34,933 | 21,672 | 5,995 | 1,131 | 157 | 197 |
| 35–39 years | 6,359 | 16.2 | 39,389 | 156 | 568 | 682 | 1,355 | 3,598 | 8,289 | 13,260 | 8,430 | 2,437 | 466 | 77 | 71 |
| 40-44 years | 1,033 | 16.0 | 6,453 | 20 | 87 | 112 | 213 | 601 | 1,378 | 2,122 | 1,356 | 433 | 105 | 14 | 12 |
| 45–49 years | 30 | 16.1 | 187 | _ | 4 | 2 | 6 | 18 | 45 | 61 | 35 | 13 | 1 | 1 | 1 |

¹Less than 2,500 grams.
² Equivalents of gram weights in terms of pounds and ounces are shown in Technical notes.
³Includes races other than white and black.

Table 45. Live births with selected abnormal conditions of the newborn and rates by age of mother, by race of mother: United States, 1992

[Rates are number of live births with specified abnormal condition per 1,000 live births in specified group]

| | | | Age of mother | | | | | | | |
|--|----------------------------|-----------------------------------|---------------|-------------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Abnormal condition and race of mother | All births ¹ | Abnormal condition reported | All ages | Under 20 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–49 years | Not stated |
| All races ² | Nun | nber | | | | Rate | | | | Number |
| Anemia | 4,065,014 | 4,645 | 1.2 | 1.4 | 1.3 | 1.1 | 1.1 | 1.1 | 1.3 | 141,285 |
| Birth injury ³ | 3,633,541 | 7,451 | 2.1 | 2.2 | 2.2 | 2.2 | 1.9 | 1.9 | 1.6 | 107,048 |
| Fetal alcohol syndrome 4,5 | 3,838,199 | 460 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | * | 136,859 |
| Hyaline membrane disease/RDS | 4,065,014 | 24,755 | 6.3 | 7.8 | 6.7 | 5.8 | 5.7 | 5.9 | 6.7 | 141,285 |
| Meconium aspiration syndrome 5 | 3,908,869 | 9,757 | 2.6 | 2.7 | 2.5 | 2.5 | 2.6 | 3.0 | 3.1 | 135,856 |
| Assisted ventilation less than 30 minutes 6 | 3,777,127 | 54,838 | 15.1 | 16.4 | 15.1 | 14.6 | 14.6 | 15.4 | 16.3 | 133,522 |
| Assisted ventilation 30 minutes or longer 6 | 3,777,127 | 28,409 | 7.8 | 9.8 | 7.9 | 7.2 | 7.1 | 8.2 | 9.7 | 133,522 |
| Seizures | 4,065,014 | 2,787 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 | 0.9 | 141,285 |
| White | | | | | | | | | | |
| Anemia | 3,201,678 | 3,406 | 1.1 | 1.3 | 1.2 | 1.1 | 1.0 | 1.0 | 1.4 | 111,120 |
| Birth injury ³ | 2,834,936 | 6,428 | 2.3 | 2.6 | 2.5 | 2.4 | 2.1 | 2.0 | 1.9 | 81,941 |
| Fetal alcohol syndrome 4,5 | 3,005,186 | 256 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | * | 107,693 |
| Hyaline membrane disease/RDS | 3,201,678 | 19,550 | 6.3 | 8.0 | 6.8 | 5.9 | 5.7 | 6.0 | 6.8 | 111,120 |
| Meconium aspiration syndrome ⁵ | 3,065,875 | 7,222 | 2.4 | 2.6 | 2.3 | 2.3 | 2.5 | 2.8 | 3.1 | 106,719 |
| Assisted ventilation less than 30 minutes 6 | 2,989,099 | 43,711 | 15.2 | 16.8 | 15.3 | 14.7 | 14.7 | 15.4 | 16.8 | 106,228 |
| Assisted ventilation 30 minutes or longer 6 | 2,989,099 | 21,442 | 7.4 | 9.6 | 7.6 | 6.8 | 6.7 | 7.9 | 9.6 | 106,228 |
| Seizures | 3,201,678 | 2,136 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 | 0.9 | 111,120 |
| Black | | | | | | | | | | |
| Anemia | 673,633 | 1,036 | 1.6 | 1.6 | 1.7 | 1.3 | 1.7 | 1.9 | * | 25,120 |
| Birth injury ³ | 620,658 | 720 | 1.2 | 1.3 | 1.2 | 1.3 | 1.1 | 1.1 | * | 20,843 |
| Fetal alcohol syndrome 4,5 | 649,664 | 156 | 0.2 | * | 0.2 | 0.4 | 0.4 | * | * | 24,263 |
| Hyaline membrane disease/RDS | 673,633 | 4,637 | 7.2 | 7.8 | 7.0 | 6.5 | 7.5 | 7.2 | 8.2 | 25,120 |
| Meconium aspiration syndrome ⁵ | 656,971 | 2,085 | 3.3 | 3.0 | 2.9 | 3.4 | 3.8 | 4.7 | 3.9 | 24,238 |
| Assisted ventilation less than 30 minutes 6 | 612,643 | 8,908 | 15.1 | 15.2 | 14.4 | 14.9 | 16.0 | 16.9 | 17.8 | 22,677 |
| Assisted ventilation 30 minutes or longer ⁶ | 612,643 | 6,001 | 10.2 | 10.3 | 9.5 | 10.1 | 11.1 | 11.5 | 11.4 | 22,677 |
| Seizures | 673,633 | 548 | 0.8 | 0.8 | 1.0 | 0.7 | 0.8 | 1.0 | * | 25,120 |

¹ Total number of births to residents of areas reporting specified condition.
2 Includes races other than white and black.
3 Massachusetts, Nebraska, and Texas do not report this condition.
4 Wisconsin does not report this condition.
5 New York City (but not New York State) reports this condition.
6 New York State and New York City do not report this condition.

Table 46. Live births with selected congenital anomalies and rates by age of mother, by race of mother: Total of 48 reporting States and the District of Columbia, 1992

[Rates are number of live births with specified congenital anomaly per 100,000 live births in specified group]

| | | Congenital - | | | Ag | e of mothe | er | | | |
|---|---|---|---------------------------------------|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------|---|
| Congenital anomaly and race of mother | All births ¹ | Congenital anomaly reported | All ages | Under 20 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–49 years | Not stated |
| All races ² | Nur | mber | | | | Rate | | | | Number |
| Anencephalus | 3,749,205 3,749,205 3,749,205 3,749,205 3,749,205 | 479 823 956 306 852 | 13.2 22.8 26.4 8.5 23.6 | 15.5 23.8 29.4 12.8 22.3 | 14.6 27.1 29.6 7.3 22.4 | 11.8 20.7 24.7 8.0 23.6 | 12.7 20.8 22.8 7.9 25.0 | 10.0 19.7 22.3 7.7 23.0 | * * 54.5 * * | 131,973 131,973 131,973 131,973 131,973 |
| Heart malformations | 3,749,205 3,749,205 | 4,343 4,734 | 120.1 130.9 | 103.4 140.0 | 118.8 129.4 | 116.7 123.3 | 120.2 129.9 | 149.8 140.7 | 193.7 189.7 | 131,973 131,973 |
| Rectal atresia/stenosis. Tracheo-esophageal fistula/Esophageal atresia Omphalocele/Gastroschisis. Other gastrointestinal anomalies | 3,749,205 3,749,205 3,749,205 3,749,205 | 379 509 870 1,118 | 10.5 14.1 24.1 30.9 | 9.8 13.4 48.3 34.9 | 11.4 12.0 30.1 32.9 | 10.3 14.0 18.3 28.8 | 8.9 15.0 14.4 29.7 | 13.3 17.3 13.0 28.0 | * * * | 131,973 131,973 131,973 131,973 |
| Malformed genitalia | 3,749,205 3,749,205 3,749,205 | 2,669 398 4,135 | 73.8 11.0 114.3 | 68.1 13.0 101.5 | 70.8 10.2 111.8 | 74.0 10.6 114.5 | 79.4 11.6 116.6 | 78.7 10.3 131.7 | 64.6 * 139.2 | 131,973 131,973 131,973 |
| Cleft lip/palate | 3,749,205 3,749,205 3,749,205 3,749,205 3,749,205 | 3,089 3,033 2,074 448 6,779 | 85.4 83.8 57.3 12.4 187.4 | 83.4 120.0 63.2 11.1 185.3 | 85.5 92.7 63.3 10.9 177.8 | 85.6 76.9 53.7 12.4 184.2 | 82.3 66.9 51.1 13.0 194.2 | 93.4 65.0 57.7 16.0 208.1 | 98.9 96.8 58.5 * | 131,973 131,973 131,973 131,973 131,973 |
| Down's syndrome | 3,749,205 3,749,205 | 1,811 1,523 | 50.1 42.1 | 28.9 42.1 | 36.1 38.7 | 35.5 36.6 | 56.0 37.0 | 115.1 67.7 | 343.0 151.3 | 131,973 131,973 |
| White | | | | | | | | | | |
| Anencephalus | 2,965,940 2,965,940 2,965,940 2,965,940 2,965,940 | 393 688 789 227 694 | 13.7 24.0 27.6 7.9 24.3 | 17.4 27.2 30.7 13.0 25.0 | 15.0 29.1 31.6 6.9 23.6 | 12.0 21.8 24.6 7.7 23.2 | 13.1 21.9 24.6 7.1 25.4 | 11.3 19.4 23.8 * | * * 64.8 * * | 104,463 104,463 104,463 104,463 |
| Heart malformations | 2,965,940 2,965,940 | 3,551 3,912 | 124.1 136.7 | 107.1 158.6 | 124.6 138.1 | 118.5 127.9 | 124.4 131.2 | 152.0 139.8 | 192.1 197.0 | 104,463 104,463 |
| Rectal atresia/stenosis. Tracheo-esophageal fistula/Esophageal atresia Omphalocele/Gastroschisis. Other gastrointestinal anomalies | 2,965,940 2,965,940 2,965,940 2,965,940 | 316 435 674 876 | 11.0 15.2 23.6 30.6 | 9.5 15.8 55.6 37.6 | 12.3 14.1 30.1 31.6 | 11.1 14.9 17.5 28.0 | 9.3 15.1 13.1 30.3 | 13.7 17.0 13.3 27.1 | * * * | 104,463 104,463 104,463 |
| Malformed genitalia | 2,965,940 2,965,940 2,965,940 | 2,260 353 3,610 | 79.0 12.3 126.2 | 79.0 16.7 119.1 | 76.0 11.4 123.7 | 77.9 11.6 124.1 | 82.7 12.8 127.3 | 84.9 10.9 143.5 | 59.9 * 147.2 | 104,463 104,463 104,463 |
| Cleft lip/palate | 2,965,940 2,965,940 2,965,940 2,965,940 2,965,940 | 2,707 1,682 1,826 372 5,515 | 94.6 58.8 63.8 13.0 192.7 | 104.0 70.8 74.0 12.3 191.8 | 97.6 58.4 72.3 10.7 178.9 | 93.4 58.6 58.3 12.9 188.4 | 88.5 54.4 57.3 14.1 201.8 | 93.8 55.8 62.2 16.2 220.3 | 94.8 64.8 62.4 * | 104,463 104,463 104,463 104,463 |
| Down's syndrome | 2,965,940 2,965,940 | 1,567 1,262 | 54.8 44.1 | 33.8 45.5 | 39.5 40.9 | 38.8 39.0 | 60.2 38.6 | 118.8 67.5 | 359.2 147.2 | 104,463 104,463 |

Table 46. Live births with selected congenital anomalies and rates by age of mother, by race of mother: Total of 48 reporting States and the District of Columbia, 1992—Con.

[Rates are number of live births with specified congenital anomaly per 100,000 live births in specified group]

| | | 0 | | | | | | | | |
|---|----------------------------|-----------------------------------|-------------|-------------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Congenital anomaly and race of mother | All births ¹ | Congenital anomaly reported | All ages | Under 20 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–49 years | Not stated |
| Black | Nu | mber | | | | Rate | | | | Number |
| Anencephalus | 612,130 | 64 | 10.9 | * | 10.9 | * | * | * | * | 22,620 |
| Spina bifida/Meningocele | 612,130 | 103 | 17.5 | 16.6 | 21.3 | * | * | * | * | 22,620 |
| Hydrocephalus | 612,130 | 130 | 22.1 | 23.0 | 23.4 | 25.1 | * | * | * | 22,620 |
| Microcephalus | 612,130 | 71 | 12.0 | * | 10.4 | * | * | * | * | 22,620 |
| Other central nervous system anomalies | 612,130 | 129 | 21.9 | 17.3 | 20.2 | 28.8 | * | * | * | 22,620 |
| Heart malformations | 612,130 | 634 | 107.5 | 97.9 | 101.2 | 113.6 | 101.9 | 162.4 | * | 22,620 |
| Other circulatory/respiratory anomalies | 612,130 | 597 | 101.3 | 96.5 | 96.5 | 103.3 | 112.6 | 104.2 | * | 22,620 |
| Rectal atresia/stenosis | 612,130 | 49 | 8.3 | * | * | * | * | * | * | 22,620 |
| Tracheo-esophageal fistula/Esophageal atresia | 612,130 | 52 | 8.8 | * | * | * | * | * | * | 22,620 |
| Omphalocele/Gastroschisis | 612,130 | 169 | 28.7 | 33.1 | 30.1 | 27.3 | 26.1 | * | * | 22,620 |
| Other gastrointestinal anomalies | 612,130 | 191 | 32.4 | 27.4 | 36.8 | 31.7 | 30.8 | * | * | 22,620 |
| Malformed genitalia | 612,130 | 312 | 52.9 | 46.1 | 53.4 | 52.4 | 65.2 | * | * | 22,620 |
| Renal agenesis | 612,130 | 33 | 5.6 | * | * | * | * | * | * | 22,620 |
| Other urogenital anomalies | 612,130 | 371 | 62.9 | 61.2 | 63.3 | 62.0 | 60.4 | 64.4 | * | 22,620 |
| Cleft lip/palate | 612,130 | 221 | 37.5 | 36.7 | 37.9 | 33.2 | 32.0 | 70.5 | * | 22,620 |
| Polydactyly/Syndactyly/Adactyly | 612,130 | 1,281 | 217.3 | 240.4 | 230.4 | 207.3 | 187.3 | 137.9 | * | 22,620 |
| Club foot | 612,130 | 198 | 33.6 | 41.0 | 34.8 | 36.2 | * | * | * | 22,620 |
| Diaphragmatic hernia | 612,130 | 61 | 10.3 | * | 11.4 | * | * | * | * | 22,620 |
| Other musculoskeletal/integumental anomalies | 612,130 | 882 | 149.6 | 152.6 | 158.8 | 138.0 | 152.9 | 119.5 | * | 22,620 |
| Down's syndrome | 612,130 | 167 | 28.3 | 16.6 | 22.8 | 18.4 | 33.2 | 95.0 | * | 22,620 |
| Other chromosomal anomalies | 612,130 | 183 | 31.0 | 27.4 | 27.0 | 27.3 | 27.3 | 67.4 | * | 22,620 |

 $^{^{1}\}text{Total}$ number of births to residents of areas reporting specified congenital anomaly. $^{2}\text{Includes}$ races other than white and black.

NOTE: Excludes data for New Mexico and New York, which did not require reporting of congenital anomalies.

Table 47. Live births by plurality of birth and ratios, by age and race of mother: United States, 1992

| | | | | | | Age of m | nother | | | | |
|---|----------------------|-------------------|--------------------|-------------------|-------------------|--------------------|--------------------|--------------------|-------------------|-----------------|----------------|
| | | | | 15–19 year | s | | | | | | |
| Plurality and race of mother | All ages | Under 15 years | Total | 15–17 years | 18–19 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–44 years | 45–49 years |
| | | | | | | Number | | | | | |
| All live births ¹ | 4,065,014 | 12,220 | 505,415 | 187,549 | 317,866 | 1,070,490 | 1,179,264 | 895,271 | 344,644 | 55,702 | 2,008 |
| WhiteBlack | 3,201,678 673,633 | 5,367 6,448 | 342,739 146,800 | 118,786 63,002 | 223,953 83,798 | 814,422 216,057 | 964,586 157,960 | 745,510 100,339 | 282,617 39,389 | 44,866 6,453 | 1,571 187 |
| Live births in single deliveries 1 | 3,965,759 | 12,095 | 498,105 | 185,194 | 312,911 | 1,049,288 | 1,150,057 | 867,375 | 332,754 | 54,148 | 1,937 |
| WhiteBlack | 3,124,687 654,653 | 5,312 6,382 | 338,341 144,068 | 117,434 62,061 | 220,907 82,007 | 799,767 210,127 | 941,430 152,896 | 722,142 96,773 | 272,639 37,940 | 43,556 6,280 | 1,500 187 |
| Live births in twin deliveries ¹ | 95,372 | 125 | 7,236 | 2,328 | 4,908 | 20,790 | 28,089 | 26,434 | 11,159 | 1,477 | 62 |
| White | 73,547 18,619 | 55 66 | 4,369 2,699 | 1,341 932 | 3,028 1,767 | 14,349 5,834 | 22,147 4,966 | 22,007 3,487 | 9,318 1,401 | 1,240 166 | 62 - |
| Live births in triplet and other plural deliveries ¹ | 3,883 | _ | 74 | 27 | 47 | 412 | 1,118 | 1,462 | 731 | 77 | 9 |
| White | 3,444 361 | - - | 29 33 | 11 9 | 18 24 | 306 96 | 1,009 98 | 1,361 79 | 660 48 | 70 7 | 9 |
| | | | | | Ratio po | er 1,000 live b | oirths | | | | |
| All multiple births ¹ | 24.4 | 10.2 | 14.5 | 12.6 | 15.6 | 19.8 | 24.8 | 31.2 | 34.5 | 27.9 | 35.4 |
| White | 24.0 28.2 | 10.2 10.2 | 12.8 18.6 | 11.4 14.9 | 13.6 21.4 | 18.0 27.4 | 24.0 32.1 | 31.3 35.5 | 35.3 36.8 | 29.2 26.8 | 45.2 * |
| All twin births ¹ | 23.5 | 10.2 | 14.3 | 12.4 | 15.4 | 19.4 | 23.8 | 29.5 | 32.4 | 26.5 | 30.9 |
| White | 23.0 27.6 | 10.2 10.2 | 12.7 18.4 | 11.3 14.8 | 13.5 21.1 | 17.6 27.0 | 23.0 31.4 | 29.5 34.8 | 33.0 35.6 | 27.6 25.7 | 39.5 |
| | | | | | Ratio per | 100,000 live | births | | | | |
| All higher-order multiple births 1,2 | 95.5 | * | 14.6 | 14.4 | 14.8 | 38.5 | 94.8 | 163.3 | 212.1 | 138.2 | * |
| WhiteBlack | 107.6 53.6 | * | 8.5 22.5 | * | * 28.6 | 37.6 44.4 | 104.6 62.0 | 182.6 78.7 | 233.5 121.9 | 156.0 | * |

¹Includes races other than white and black. ²Includes triplets and higher-order plural deliveries.

Technical notes

Source of data

Data shown in this report for 1992 are based on 100 percent of the birth certificates in all States and the District of Columbia. The data are provided to the National Center for Health Statistics (NCHS) through the Vital Statistics Cooperative Program (VSCP). In 1984 and earlier years, the VSCP included varying numbers of States that provided data based on 100 percent of their birth certificates. Data for States not in the VSCP were based on a 50-percent sample of birth certificates filed in those States. Information on sampling procedures and sampling errors for 1984 and earlier years is provided in the annual report, Vital Statistics of the United States, Volume I, Natality.

Race

Beginning with the 1989 data year, NCHS has tabulated its birth data primarily by race of the mother. In 1988 and prior years, births were tabulated by the race of the child, which was determined from the race of the parents as entered on the birth certificate. When the parents were of the same race, as was the case for 96.1 percent of births in 1992, the race of the child was the same as the race of the parents. When the parents were of different races and one parent was white, the child was assigned to the other parent's race. When the parents were of different races and neither parent was white, the child was assigned to the father's race, with one exception. If either parent was Hawaiian, the child was assigned to Hawaiian. If race was missing for one parent, the child was assigned the race of the parent for whom race was reported.

The most important factor influencing the decision to tabulate births by race of the mother was the recent revision of the birth certificate, effective with the 1989 data year. This revision includes many more health questions that are directly associated with the mother (for example, method of delivery, medical risk factors for this pregnancy, tobacco and alcohol use during pregnancy, and maternal weight gain). Additionally, many of the other items on the birth

certificate for more than two decades also relate directly to the mother, for example, age, education level, and receipt of prenatal care. In all these instances, it is more appropriate to tabulate births by the mother's race.

A second factor has been the increasing incidence of interracial parentage. In 1992, 3.9 percent of births were to parents of different races compared with just 1.4 percent in 1972. The majority of these births were to white mothers and fathers of another race. There have been two major consequences of the increasing interracial parentage. One is the effect on birth rates by race. Under the previous procedures, the number of white births had been arbitrarily limited to infants whose parents were both white (or one parent white if only one parent's race was reported). At the same time, the number of births of other races had been arbitrarily increased to include all births to white mothers and fathers of other races. Thus, if race of mother had been used, birth rates per 1,000 white women in a given age group would have been higher, while comparable rates for black women and women of other races would have been lower. The other consequence of increasing interracial parentage is its impact on the racial differential in various characteristics of births, particularly in cases where there is generally a large racial disparity, such as the incidence of low birthweight. In this instance, the racial differential is smaller when the data are tabulated by race of child rather than by race of mother. The same effect has been noted for characteristics such as nonmarital childbearing, preterm births, late or no prenatal care, and low educational attainment of mother.

The third factor influencing the decision to tabulate births by race of mother is the growing proportion of births with race of father not stated, 16 percent in 1992 compared with 9 percent in 1972. This reflects the increase in the proportion of births to unmarried women; in many such cases, no information is reported on the father. These births are already assigned the race of the mother because there is no alternative.

Tabulating all births by race of mother, therefore, provides for a more uniform approach, rather than a necessarily arbitrary combination of parental races. This topic is discussed in greater detail in two recent papers (81,82).

Trend data by race shown in this report have been retabulated by race of mother for all years beginning with the 1980 data year. The retabulation provides more uniform data to those analyzing birth data by race, particularly trend data. To facilitate continuity and analysis of the data, trend tables showing data for years prior to 1980 show data for both race of mother and race of child for 1980. This makes it possible to distinguish the effects of this change from real changes in the data. The text in this report focuses on data tabulated by race of mother. When the trend in rates is discussed, the rates are those tabulated by race of mother.

Population denominators

Birth and fertility rates for 1992 shown in tables 1, 3–5, 7, 10, 11, 14, and 15 are based on populations estimated as of July 1, 1992. The population estimates have been published by the U.S. Bureau of the Census (5) and are based on the 1990 census counts by race and age, which were modified to be consistent with Office of Management and Budget categories and historical categories for birth data, and in the case of age, to reflect age as of the census reference date. The modification procedures are described in detail in a census report (83).

Birth and fertility rates by month shown in table 12 are based on monthly population estimates also based on the 1992 census count. Rates for unmarried women shown in tables 14 and 15 are based on distributions of the population by marital status as of March 1992 (17), published by the U.S. Bureau of the Census, which have been adjusted to July 1992 population levels (5) by the Division of Vital Statistics, NCHS.

Birth and fertility rates for the Hispanic population, shown in tables 7 and 11, are based on estimates of the total Hispanic population as of July 1, 1992

(5). Birth data for New Hampshire are excluded from the rates for the Hispanic origin population because this State did not report this information on the birth certificate in 1992.

Computation of rates

In computing birth rates by live-birth order, births with birth order not stated were distributed in the same proportion as births of known live-birth order within each age of mother classification. This procedure is done separately by race. A similar process is followed for computing birth rates by age of father; births with age of father not stated are distributed first within each age-of-mother group.

In computing birth and fertility rates for the Hispanic population, births with origin of mother not stated are included with non-Hispanic births rather than being distributed. In addition, all births to New Hampshire residents are assumed to be non-Hispanic. In 1990, 1.0 percent of the New Hampshire population was reported to be Hispanic (84). Thus, rates for the U.S. Hispanic population are underestimates of the true rates to the extent that the births with origin not stated (1.0 percent) were actually to Hispanic mothers and by the proportion of New Hampshire births that were to Hispanic mothers. The population with origin not stated was imputed. The effect on the rates is believed to be small.

Births by marital status of mother

Beginning with the 1980 data year, national estimates of births to unmarried women have been derived from two sources. In 1992, marital status was reported directly on the birth certificates of 44 States and the District of Columbia. In the remaining six States that lack such item (California, Connecticut, Michigan, Nevada, New York, and Texas), marital status is inferred from a comparison of the child's and parents' surnames. This procedure represents a substantial departure from the method used before 1980 to prepare national estimates of births to unmarried women, which assumed that the incidence of births to unmarried women in States with no direct question on marital status was

the same as the incidence in reporting States in the same geographic division.

The current method represents an attempt to use related information on the birth certificate to improve the quality of national data as well as to provide data for the individual nonreporting States. An evaluation of this method and its validity for California (the largest nonreporting State) has been published (85). Because of the continued substantial increases in nonmarital childbearing throughout the 1980's, the data have been intensively evaluated by the Division of Vital Statistics, NCHS. There has been continuing concern that the current method might overstate the number of births to unmarried women because it incorporates data based on a comparison of surnames. This is because women who have retained their maiden surname after marriage and who are frequently older, well-educated women, would be classified as unmarried. The results of this evaluation have been generally similar in both the reporting States and the States using inferential data for all races combined. The results differed for white and black births. Between 1991 and 1992, births to unmarried white women increased 1 percent in the States providing inferential data and 3 percent in the States with a marital status item on the birth certificate. Conversely, births to unmarried black women declined 3 percent in the States providing inferential data and declined slightly (0.2 percent) in the States reporting marital status directly on the birth certificate.

Texas births—The number of births to unmarried women in Texas is underreported. As a result of legislation passed in 1989, a birth is considered to have occurred to a married woman if the mother provides any information about the father, or if a paternity affidavit has been filed. The measurement of marital status for Texas births is expected to improve beginning with the 1994 data year, because a direct question on marital status has been added to the Texas birth certificate.

Birthweight

Birthweight is reported in some areas in pounds and ounces rather than in grams. However, the metric system has

been used in tabulating and presenting the statistics to facilitate comparison with data published by other groups. Equivalents of the gram weights in terms of pounds and ounces are as follows:

Less than 500 grams = 1 lb 1 oz or less 500–999 grams = 1 lb 2 oz-2 lb 3 oz 1,000–1,499 grams = 2 lb 4 oz-3 lb 4 oz 1,500–1,999 grams = 3 lb 5 oz-4 lb 6 oz 2,000–2,499 grams = 4 lb 7 oz-5 lb 8 oz 2,500–2,999 grams = 5 lb 9 oz-6 lb 9 oz 3,000–3,499 grams = 6 lb 10 oz-7 lb 11 oz 3,500–3,999 grams = 7 lb 12 oz-8 lb 13 oz 4,000–4,499 grams = 8 lb 14 oz-9 lb 14 oz 4,500–4,999 grams = 9 lb 15 oz-11 lb 0 oz 5,000 grams or more = 11 lb 1 oz or more

Period of gestation

The 1989 revision of the U.S. Standard Certificate of Live Birth includes a new item, "clinical estimate of gestation," that is being compared with length of gestation computed from the date the last normal menstrual period (LMP) began when the latter appears to be inconsistent with birthweight. This is done for normal weight births of apparently short gestations and very-lowbirthweight births reported to be full term. The clinical estimate was also used if the LMP date was not reported. The period of gestation for 4.3 percent of the births in 1992 was based on the clinical estimate of gestation. For 96 percent of these records, the clinical estimate was used because the LMP date was not reported. For the remaining 4 percent, the clinical estimate was used because it was compatible with the reported birthweight, whereas the LMP-based gestation was not. In cases where the reported birthweight was inconsistent with both the LMP-computed gestation and the clinical estimate of gestation, the LMP-computed gestation was used and birthweight was reclassified as "not stated." This was necessary for fewer than 500 births, or 0.01 percent of all birth records in 1992. The levels of the adjustments made for the 1992 data are very comparable to those for the 1991 data.

Computations of percents, percent distributions, and medians

Births with unknown live-birth order, attendant at birth, educational attainment

of mother, nativity of mother, month of pregnancy prenatal care began, number of prenatal visits, birthweight, length of gestation, interval between births, and 1and 5-minute Apgar scores were subtracted from the figures for total births that were used as denominators before percents, percent distributions, and medians were computed. For birth intervals, the percent distributions also exclude the second- or later-born child in a multiple delivery (interval of 0 months). Percent distributions and the median number of prenatal visits also exclude births to mothers who had no prenatal care. Computations of the median years of school completed and the median number of prenatal visits were based on ungrouped data. An asterisk is shown in place of any derived statistic based on fewer than 20 births in the numerator or denominator.

Random variation

Although the birth data in this report for births since 1985 are not subject to sampling error, they may be affected by random variation in the number of births involved. When the number of events is small (perhaps less than 100), and the probability of such an event is small, considerable caution must be observed in interpreting the data. More information on this topic is included in the Technical Appendix of the annual report, *Vital Statistics of the United States*, 1989, Volume I, Natality.

Related reports

Many of the topics discussed in this report are covered in more analytic detail in other reports published by NCHS. Topics of reports published in the past 5 years include first births to older mothers

(6), low birthweight (86), birth rates by educational attainment (18), twin births (80), and cesarean deliveries (22). Also available is a report evaluating inferred birth statistics for unmarried women in California (85).

Definitions of medical terms

The 1989 revision of the U.S. Standard Certificate of Live Birth includes several maternal and infant health items in checkbox format, including obstetric procedures, medical risk factors, complications of labor and/or delivery, abnormal conditions of the newborn, and congenital anomalies of the child (figure A). The following definitions are adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics officials for the Association for Vital Records and Health Statistics (87).

| 38a. MEDICAL RISK FACTORS FOR THIS PREGNANCY (Check all that apply) | 40. COMPLICATIONS OF LABOR AND/OR DELIVERY (Check all that apply) | 43. CONGENITAL ANOMALIES OF CHILD (Check all that apply) |
|---|---|--|
| Anemia (Hct. < 30/Hgb. < 10) | Febrile (> 100 °F. or 38 °C.) | Anencephalus |
| None | (Specify) | Malformed genitalia |
| 38b. OTHER RISK FACTORS FOR THIS PREGNANCY (Complete all items) Tobacco use during pregnancy | Vaginal | Other urogenital anomalies |
| Weight gained during pregnancy lbs. | 42. ABNORMAL CONDITIONS OF THE NEWBORN | Other musculoskeletal/integumental anomalies (Specify)19 |
| 39. OBSTETRIC PROCEDURES (Check all that apply) Amniocentesis | (Check all that apply) Anemia (Hct. <39/Hgb. < 13) | Down's syndrome |

Figure A. New maternal and infant health items from the 1989 revision of the U.S. Standard Certificate of Live Birth.

Medical risk factors for this pregnancy

Anemia—Hemoglobin level of less than 10.0 g/dL during pregnancy, or a hematocrit of less than 30 percent during pregnancy.

Cardiac disease—Disease of the heart.

Acute or chronic lung disease— Disease of the lungs during pregnancy.

Diabetes—Metabolic disorder characterized by excessive discharge of urine and persistent thirst; includes juvenile onset, adult onset, and gestational diabetes during pregnancy.

Genital herpes—Infection of the skin of the genital area by herpes simplex virus.

Hydramnios/Oligohydramnios—Any noticeable excess (hydramnios) or lack (oligohydramnios) of amniotic fluid.

Hemoglobinopathy—A blood disorder caused by alteration in the genetically determined molecular structure of hemoglobin (for example, sickle cell anemia).

Hypertension, chronic—Blood pressure persistently greater than 140/90, diagnosed prior to onset of pregnancy or before the 20th week of gestation.

Hypertension, pregnancy-associated—An increase in blood pressure of at least 30 mm Hg systolic or 15 mm Hg diastolic on two measurements taken 6 hours apart after the 20th week of gestation.

Eclampsia—The occurrence of convulsions and/or coma unrelated to other cerebral conditions in women with signs and symptoms of pre-eclampsia.

Incompetent cervix—Characterized by painless dilation of the cervix in the second trimester or early in the third trimester of pregnancy, with premature expulsion of membranes through the cervix and ballooning of the membranes into the vagina, followed by rupture of the membranes and subsequent expulsion of the fetus.

Previous infant 4,000+ grams—The birthweight of a previous live-born child was over 4,000 grams (8 pounds 14 ounces).

Previous preterm or small-forgestational-age infant—Previous birth of an infant prior to term (before 37 completed weeks of gestation), or of an infant weighing less than the 10th percentile for gestational age using a standard weight for age chart.

Renal disease—Kidney disease.

Rh Sensitization—The process or state of becoming sensitized to the Rh factor as when an Rh-negative woman is pregnant with an Rh-positive fetus.

Uterine bleeding—Any clinically significant bleeding during the pregnancy, taking into consideration the stage of pregnancy; any second or third trimester bleeding of the uterus prior to the onset of labor.

Obstetric procedures

Amniocentesis—Surgical transabdominal perforation of the uterus to obtain amniotic fluid to be used in the detection of genetic disorders, fetal abnormalities, and fetal lung maturity.

Electronic fetal monitoring— Monitoring with external devices applied to the maternal abdomen or with internal devices with an electrode attached to the fetal scalp and a catheter through the cervix into the uterus, to detect and record fetal heart tones and uterine contractions.

Induction of labor—The initiation of uterine contractions before the spontaneous onset of labor by medical and/or surgical means for the purpose of delivery.

Stimulation of labor—Augmentation of previously established labor by use of oxytocin.

Tocolysis—Use of medications to inhibit preterm uterine contractions to extend the length of pregnancy and, therefore, avoid a preterm birth.

Ultrasound—Visualization of the fetus and the placenta by means of sound waves.

Complications of labor and/or delivery

Febrile—A fever greater than 100 degrees F. or 38 C. occurring during labor and/or delivery.

Meconium,

moderate/heavy—Meconium consists of undigested debris from swallowed amniotic fluid, various products of secretion, excretion, and shedding by the gastrointestinal tract; moderate to heavy

amounts of meconium in the amniotic fluid noted during labor and/or delivery.

Premature rupture of membranes (more than 12 hours)—Rupture of the membranes at any time during pregnancy and more than 12 hours before the onset of labor.

Abruptio placenta—Premature separation of a normally-implanted placenta from the uterus.

Placenta previa—Implantation of the placenta over or near the internal opening of the cervix.

Other excessive bleeding—The loss of a significant amount of blood from conditions other than abruptio placenta or placenta previa.

Seizures during labor—Maternal seizures occurring during labor from any cause.

Precipitous labor (less than 3 hours)—Extremely rapid labor and delivery lasting less than 3 hours.

Prolonged labor (more than 20 hours)—Abnormally slow progress of labor lasting more than 20 hours.

Dysfunctional labor—Failure to progress in a normal pattern of labor.

Breech/Malpresentation—At birth, the presentation of the fetal buttocks rather than the head, or other malpresentation.

Cephalopelvic disproportion—The relationship of the size, presentation and position of the fetal head to the maternal pelvis, which prevents dilation of the cervix and/or descent of the fetal head.

Cord prolapse—Premature expulsion of the umbilical cord in labor before the fetus is delivered.

Anesthetic complications—Any complication during labor and/or delivery brought on by an anesthetic agent or agents.

Fetal distress—Signs indicating fetal hypoxia (deficiency in amount of oxygen reaching fetal tissues).

Abnormal conditions of the newborn

Anemia—Hemoglobin level of less than 13.0 g/dL, or a hematocrit of less than 39 percent.

Birth injury—Impairment of the infant's body function or structure due to adverse influences that occurred at birth.

Fetal alcohol syndrome—A syndrome of altered prenatal growth and development occurring in infants born of

women who consumed excessive amounts of alcohol during pregnancy.

Hyaline membrane disease/RDS—A disorder primarily of prematurity, manifested clinically by respiratory distress and pathologically by pulmonary hyaline membranes and incomplete expansion of the lungs at birth.

Meconium aspiration syndrome— Aspiration of meconium by the fetus or newborn, affecting the lower respiratory system.

Assisted ventilation (less than 30 minutes)—A mechanical method of assisting respiration for newborns with respiratory failure.

Assisted ventilation (30 minutes or more)—Newborn placed on assisted ventilation for 30 minutes or longer.

Seizures— A seizure of any etiology.

Congenital anomalies of child

Anencephalus—Absence of the cerebral hemispheres.

Spina bifida/meningocele—Developmental anomaly characterized by defective closure of the bony encasement of the spinal cord, through which the cord and meninges may or may not protrude.

Hydrocephalus—Excessive accumulation of cerebrospinal fluid within the ventricles of the brain with consequent enlargement of the cranium.

Microcephalus—A significantly small head.

Other central nervous system anomalies—Other specified anomalies of the brain, spinal cord, and nervous system.

Heart malformations—Congenital anomalies of the heart.

Other circulatory/respiratory anomalies—Other specified anomalies of the circulatory and respiratory systems.

Rectal atresia/stenosis—Congenital absence, closure, or narrowing of the rectum.

Tracheo-esophageal fistula/Esophageal atresia—An abnormal passage between the trachea and the esophagus; esophageal atresia is the congenital absence or closure of the esophagus.

Omphalocele/Gastroschisis—An omphalocele is a protrusion of variable amounts of abdominal viscera from a midline defect at the base of the umbilicus. In gastroschisis, the abdominal viscera protrude through an abdominal wall defect, usually on the right side of the umbilical cord insertion.

Other gastrointestinal anomalies—Other specified congenital anomalies of the gastrointestinal system.

Malformed genitalia—Congenital anomalies of the reproductive organs.

Renal agenesis—One or both kidneys are completely absent.

Other urogenital anomalies—Other specified congenital anomalies of the organs concerned in the production and excretion of urine, together with organs of reproduction.

Cleft lip/palate—Cleft lip is a fissure or elongated opening of the lip; cleft palate is a fissure in the roof of the mouth. These are failures of embryonic development.

Polydactyly/Syndactyly/Adactyly— Polydactyly is the presence of more than five digits on either hands and/or feet; syndactyly is having fused or webbed fingers and/or toes; adactyly is the absence of fingers and/or toes.

Club foot—Deformities of the foot, which is twisted out of shape or position.

Diaphragmatic hernia—Herniation of the abdominal contents through the diaphragm into the thoracic cavity usually resulting in respiratory distress.

Other musculoskeletal/integumental anomalies—Other specified congenital anomalies of the muscles, skeleton, or skin.

Down's syndrome—The most common chromosomal defect with most cases resulting from an extra chromosome (trisomy 21).

Other chromosomal anomalies—All other chromosomal aberrations.

Method of delivery

Several rates are computed for method of delivery. The overall cesarean section rate or total cesarean rate is computed as the percent of all births that were delivered by cesarean section. The primary cesarean rate is a measure that relates the number of women having a first cesarean delivery to all women giving birth who have never had a cesarean delivery. The denominator for this rate includes all births less those with method of delivery classified as repeat cesarean, vaginal birth after previous cesarean, or method not stated. The rate for vaginal birth after previous cesarean (VBAC) delivery is computed by relating all VBAC deliveries to the sum of VBAC and repeat cesarean deliveries, that is, to women with a previous cesarean section.

This report presents summary tabulations from the final natality statistics for 1992. More detailed tabulations for 1992 will be published in *Vital Statistics of the United States, Volume I—Natality*. Prior to the publication of that volume, the National Center for Health Statistics will respond to requests for unpublished data whenever possible.

Suggested citation

Ventura SJ, Martin JA, Taffel SM, et al. Advance report of final natality statistics, 1992. Monthly vital statistics report; vol 43 no 5, suppl. Hyattsville, Maryland: National Center for Health Statistics. 1994.

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DHHS Publication No. (PHS) 95-1120 4-0677 (10/94)

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